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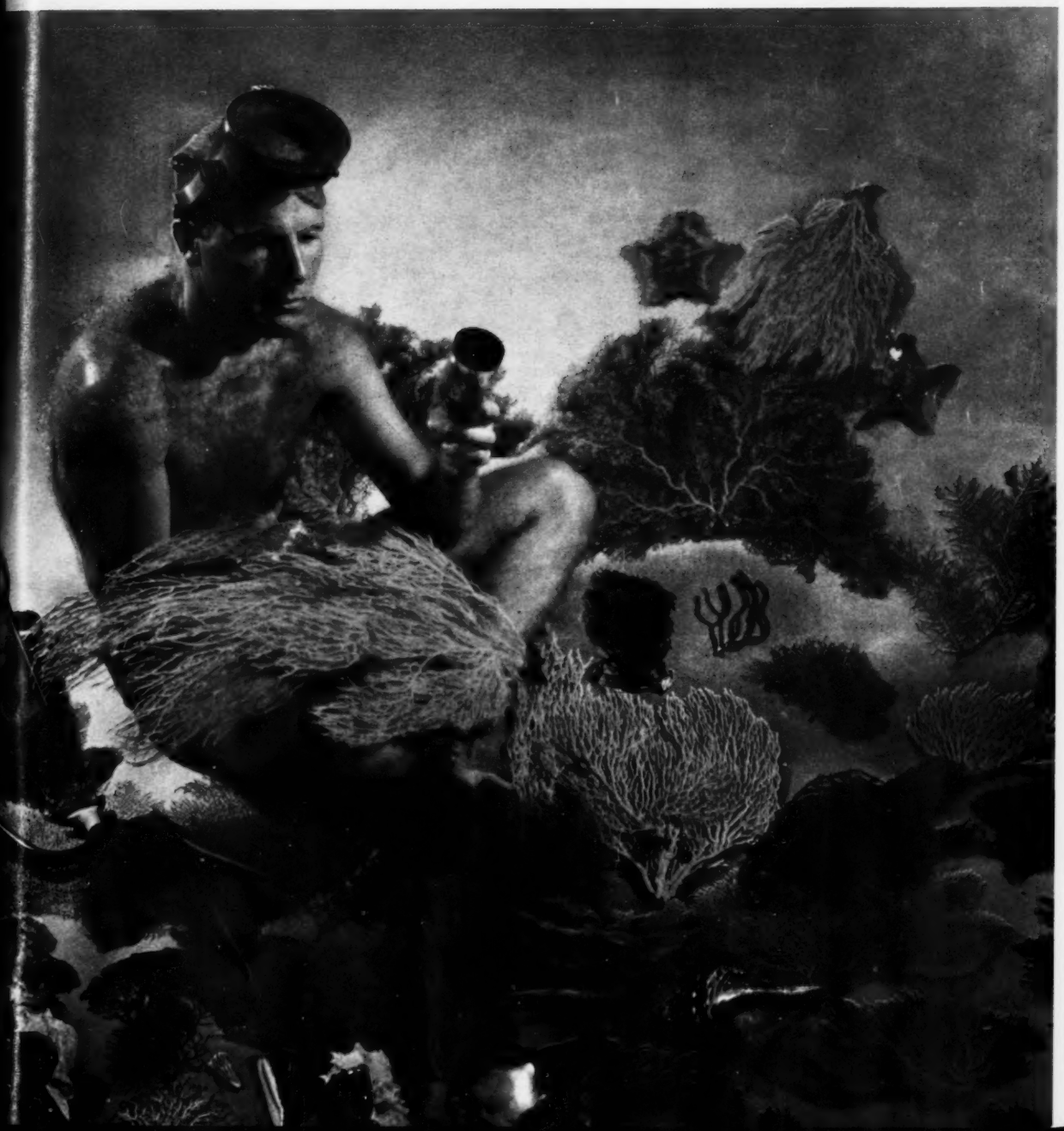
SKIN DIVER MAGAZINE

In this Issue . . .

UNDERWATER PAINTING

By RUSSELL SWANSON — Page 20

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JUNE
1958

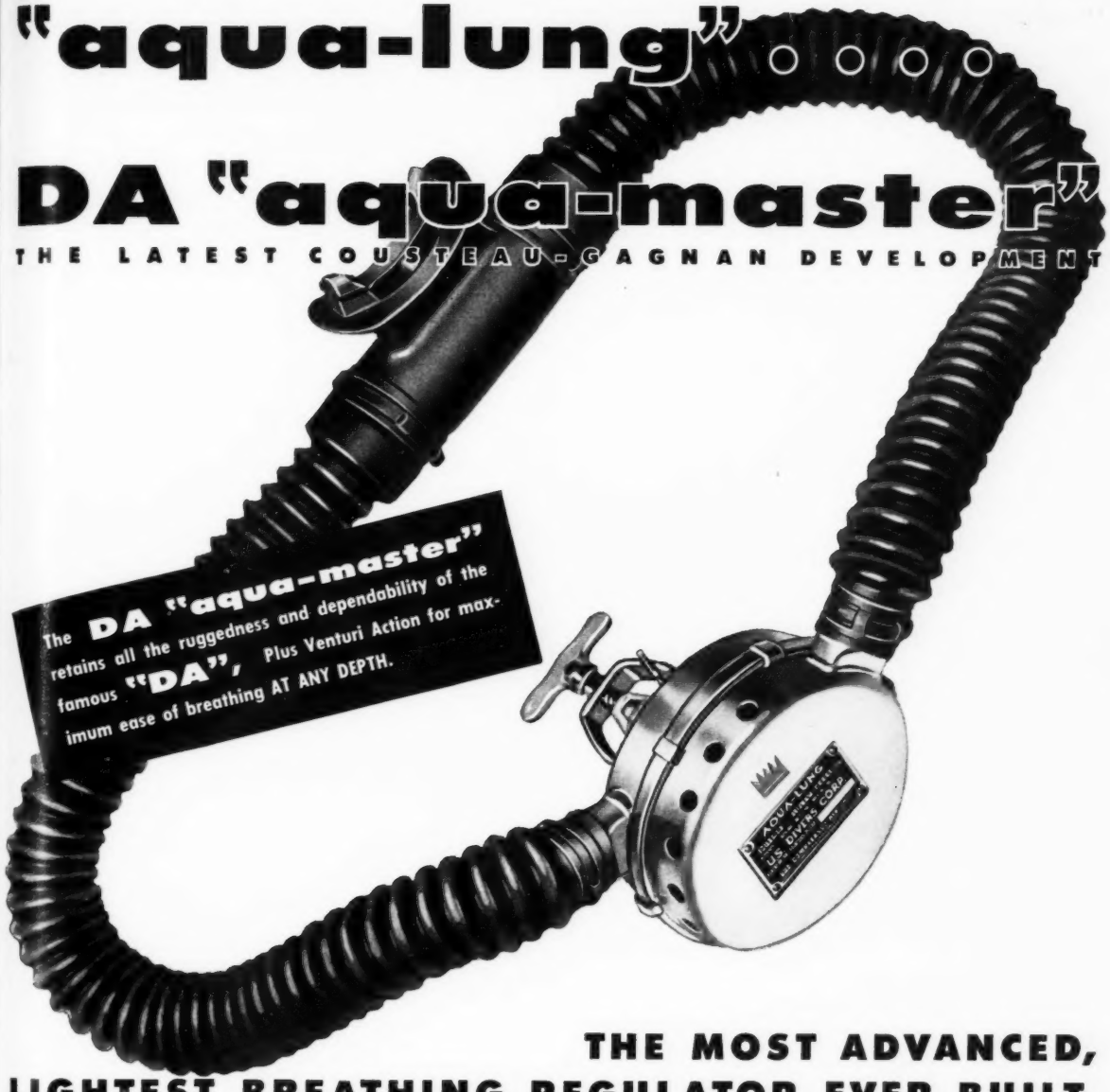



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SKIN DIVER MAGAZINE

LYNWOOD, CALIFORNIA, U. S. A.

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JIM AUXIER
EDITOR

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CONNIE JOHNSON
CIRCULATION

Closing Date for all copy is Forty (40) days prior to date of publication.

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Advertising Rates are furnished upon request, please identify company and product with request for rates.

Club Reports are submitted bi-monthly by club publicity representative, one typewritten page, double spaced, approximately 100 words per report.

Printed by Griffin-Patterson Co., Inc., Glendale, California.

Editorial offices at 10364 State Street, Lynwood, California

SKIN DIVER is published each month for underwater enthusiasts to create a further interest in skin diving and underwater spearfishing; to aid and advance scientific research through underwater swimming methods; to encourage and promote all types of activities participated in and caused by underwater swimming enthusiasts and to provide an advertising medium for manufacturers, distributors and dealers of marine products. All manuscripts, photography and materials are submitted free and released for publication, becoming the property of Skin Diver, unless previous copyrights exist. Authors and photographers should clearly mark all material submitted for publication so that credit may be given. The publishers do not necessarily agree with, nor stand responsible for, opinions expressed or implied by others than themselves.

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F-L-A-S-H—To all Clubs and Associations—For the latest information on your Regional Underwater Spearfishing Championships and the U. S. National Championships (West End, Bahama Islands, August 17, 1958) . . . contact your Regional Representative. See SD March issue, Page 29 for your Region. Regional Representatives are as follows: WEST COAST, Dave M. Bottles, 20 64th Place, Long Beach, California; SOUTHEASTERN, Dr. Jack C. Wickham, 2054 No. Decatur Road, Decatur, Georgia; EAST COAST, Paul Kenneally, 24 Arcadia Park, Dorchester, Massachusetts; GREAT LAKES, G. H. White, 323 East Hoover, Ann Arbor, Michigan; GULF COAST, Richard O. Alba, 2214 Robert St., New Orleans, Louisiana; MID WESTERN, Kenneth Fick, 7660 Raleigh St., West Minister, Colorado; NORTH PACIFIC, James B. Blanchard, Rt. 5, Box 847-A, Seattle, Washington; or National A.A.U. Championship Chairman, E. D. Vezzani, 66 Pryor Street, N.E., Atlanta, Georgia.

This is June, the last month for the Official Contest Blank for the Giant Underwater Photo Contest. So far, the entries have been few so the odds are with you. The winning photograph will adorn the cover of Skin Diver for August, the winning photographer will receive two round trip tickets for fish-filled La Paz plus a handful of cash. You photographers get on the ball and send in those pictures with the blank before June 20 . . . the absolute deadline.

Walter Feinberg of the Boston Sea Rovers and Neal Hess, a Los Angeles County Certified Skin and Scuba Instructor now living in Massachusetts, have teamed up with other Sea Rovers and are working on a plan for a National Instructors Certification Plan. Their first efforts will be in the New England area. We would like to have some discussion on this Plan in the pages of the magazine. What do you think, how, when? We all know why.

"Techniques of Skin Diving", photographed by Mort Toggweiler, is now available through both the Long Beach (Calif.) and Los Angeles City Libraries. This film should be seen by all clubs and groups interested in diving. An excellent movie. Ten minutes with sound and color.

Reservations are starting to pour in for the Greyhound busses that leave Los Angeles on Saturday, August 9 for the Bahamas and the National Skin Diving Championships. The big fifteen day trip includes the three day trip to West Palm Beach, Florida . . . a short plane hop over to West End, Grand Bahama Island and the return trip to Los Angeles on Sunday, August 24. The total price for the bus and plane trip is $100.99. You can't beat that price or trip any place. Reservations are being made through John Geiszler at TO. 1-7308 and Kate Miller at EX. 8-3656 (Los Angeles numbers).

cover

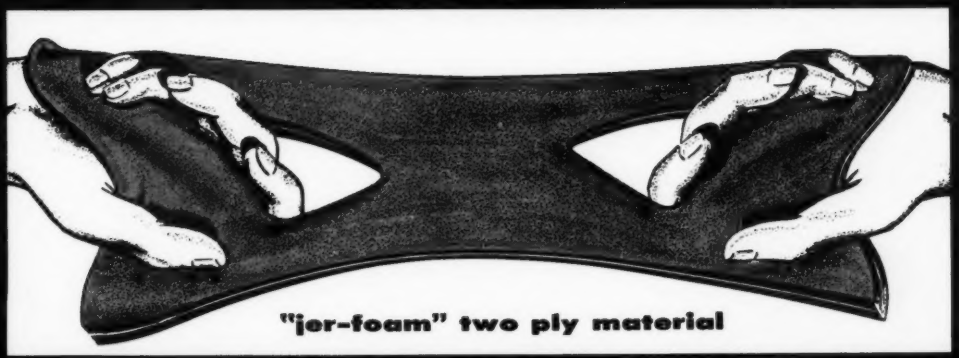
Hal Scotten, a biologist at Scripps Institution of Oceanography, looks over specimens collected below the tip of Baja California. All of the fans, shells, corals and gorgonias were brought to the surface from depths up to 50 feet by the scientific divers. Rolleimarine transparency by Ron Church.

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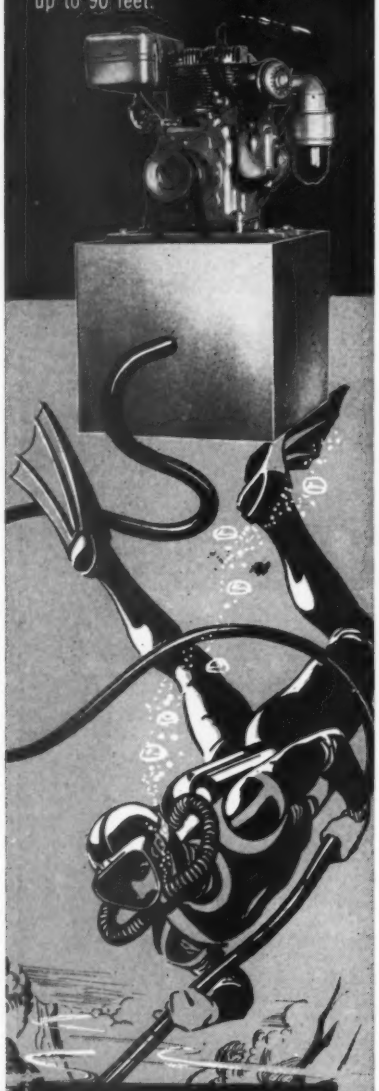
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Bettie Page expressed sincere interest in the fundamentals of diving.

THE LATEST RAGE WITH BETTIE PAGE

By ELLSWORTH BOYD

It's not everyday that our Ft. Lauderdale skin diving school has the opportunity to instruct one of America's top pin-up models—the lovely Miss Bettie Page.

Miss Page expressed sincere interest in learning the fundamentals of diving and yearned to visit the coral reef.

She took to the water like a fish. In no time at all, the dark haired beauty was accompanying Jim Kelly and me on a swim to the coral reef, a quarter of a mile from our sunny Florida shore.

It was difficult for Kelly and me to keep our eyes on the reef with a lovely mermaid like Bettie along.

Bettie was fascinated with the silent world of fish and coral. In twenty feet of water she dived like a veteran.

She was especially enthused with the multi-colored Queen Angel fish and a pesty Trigger fish which followed us all over the reef. Bettie liked him so much, she wanted to dive down and find some food for him!

Once Bettie exclaimed, "If I could only get down there and walk on the ocean floor and breathe underwater!"

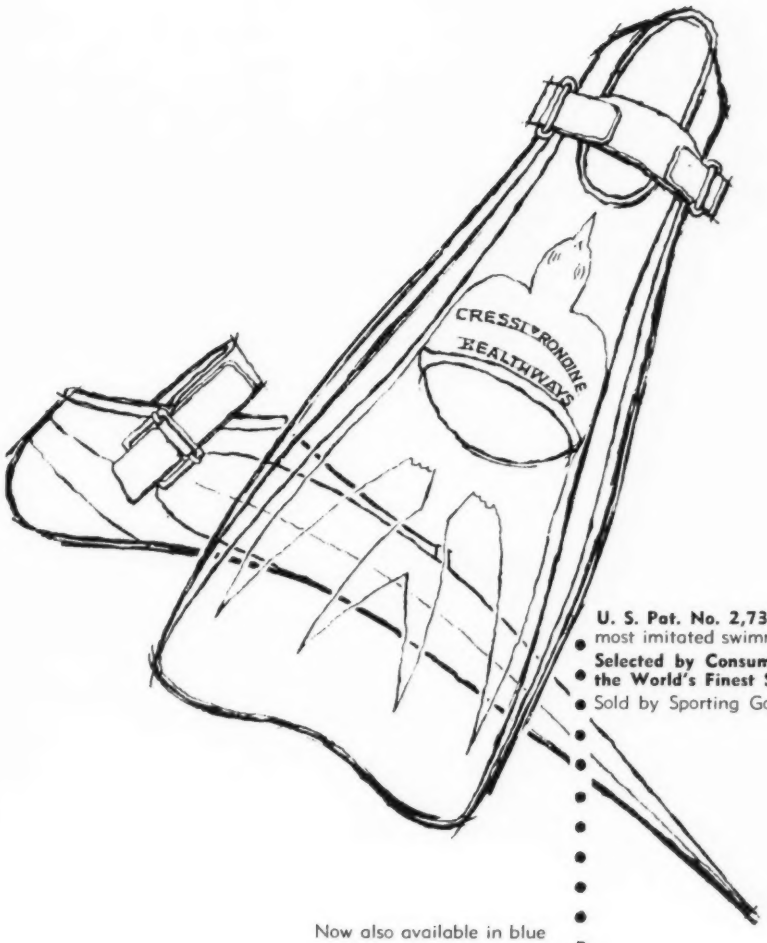
"That," we explained, "would come in the next lesson with the lung."

After two hours of exploring the wonders of the deep, Kelly and I felt a chill, but not a complaint did we hear from our lovely mermaid.

The weather prevented us from returning to the reef the rest of that week and Bettie's vacation ended.

She did, however, promise to return and go diving with us again.

Betty was enchanted with the beauty of the reef and we were enchanted with the beauty of outdoor gal—Bettie Page.



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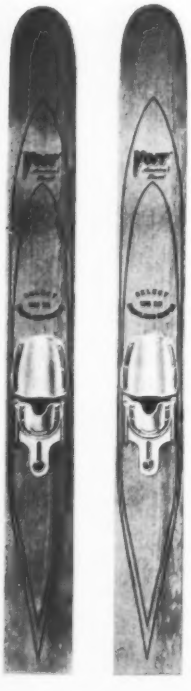
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VOIT

LETTERS

. . . I was recently appointed Federal Liaison Officer to the USFA of Australia. My duties will be to keep the Australian Association abreast of current trends in competitive skin diving and legislation pertaining to the sport.

Perhaps the most important aspect of my position will be the obligation to furnish any of your readers with information they may require of Australian conditions.

This service could vary from supplying names of pen friends, those interested in trading gear, badges, magazines, colour slides, etc., to specific advice on localities (initially forwarding letters received to those specifically concerned), apart from the more formal side of giving competition and legislation news.

If you would be so kind as to publish this letter, I would be most grateful.

David Fordham
23 Albany Crescent
Oaklands Park
Adelaide, South Australia

. . . Could you send me the required specifications for a compressor to refill tanks for from one to five divers. It needn't be big or powerful since it would not be used for commercial purposes and should be fairly light for carrying in a car and low priced.

Paul Doerr
22 Davis Drive
Sharpsville, Penna.

(Dear Paul—The above letter will bring you many letters from other divers full of information about compressors, psi, cfm, hp and the price of the one they want to sell to you. Evaluate all of the offers and buy the best compressor.)

. . . I am writing to you in the hope that you might be able to assist me in obtaining 35 mm slides of underwater scenes, animal life and/or equipment relating to skin diving. If you know of any person, organization or company where I may be able to obtain slides I would appreciate the information.

The reason for this request is—I have been giving free, informal talks on our favorite sport—skin diving—to civic organizations, service clubs, yacht clubs and other organizations. Until I came to Florida for Northrop Aircraft, Inc., I gave these talks in the Greater Los Angeles Area and resided near your office—in Huntington Park. I expect to **Come Home** in the future. As I have been diving for years, both Deep Sea and Skin—I feel that I am qualified to give these talks. The purpose—to bring more people into the fast growing sport of skin diving. The organizations who have heard my lecture and looked over my equipment have been well pleased and requests have been received to repeat the talks.

I will purchase any and all slides within reason which are identified (as to what the fish is, who the diver is, where the photo was taken, and other info.) Any answer on the part of skin divers will be greatly appreciated.

W. W. Thomas
P.O. Box 485
Merritt Island, Fla.

. . . In the April issue you published a letter from Mr. Donald E. Ozab regarding my article "Spanish Diver Logs 328 Foot Dive", (December SD 1957). Mr. Ozab writes: "It is entirely possible that when Eduard Admetlla experienced his blind seizure that it was caused, not by nitrogen narcosis, as the account implied, but by oxygen poisoning . . . since beyond 300 feet the partial pressure of oxygen would exceed two atmospheres absolute which is considered to be the maximum

pressure at which oxygen can be safely tolerated."

If my article would have been published in its complete form and not only a condensation of it, as you have done, this remark of Mr. Ozab's, on the other hand perfectly right, would have been unnecessary, since I stated the same thing in my original article and with quite the same words.

I agree with Mr. Ozab in his appreciation of the dive. Such performances are extremely dangerous and are a bad example for young divers, never to be followed. Personally, I am against deep diving records. The maximum depth I have attained so far is 65 meters (195-ft.), and it is quite enough for me.

It would be very kind of you to publish this letter, in order to put things straight.

Antoni Ribera
Barcelona, Spain

. . . I noticed in your April SD issue a letter by Chris Donner on the Friendly Sea Crabs. I'll second the motion, they're great. My sister and I were merely inquisitive about skin diving before we met Mr. Alan Foster. Once in his hands we became avid enthusiasts. Like Chris said, "The scenery down below is great." We had a first hand look at it and like the rest of the visitors to the Sea Crabs were given regal treatment.

Skip and Penny Gilchrist
Toronto, Ont., Canada

. . . In one of the well known skin diving manuals, the author states "rinsing ears with 50% to 70% alcohol, will retard 'Ear Fungus' by drying the ear canal." Upon speaking to my school physician, he said this solution would burn the ears and that a solution of hydrogen peroxide (bought in any drug store) would do a better job and would be safer. I obtained an "Ear Fungus" this summer and I am now using a doctor's prescription to get rid of it.

Eugene Martin
Manhattan College
Riverdale, New York

. . . being an ardent skin diver and a keen photographer, I naturally have quite an interest in underwater photography. Unfortunately it is impossible in this country to buy 35mm camera housings, leaving only one alternative . . . to make our own which in my opinion is not very satisfactory, as in time these leak and could mean the ruination of an expensive camera.

I would be much obliged if you would request for me through your excellent magazine, if readers who have spare photographs or negatives would send same to me, as I would like to start an album devoted entirely to the underwater world.

A few points that may be of interest to your readers re. skin diving in this country are: water temperature varies between 50° in winter to 65° approximately in summer. Rubber suits are seldom worn in this country as they are too expensive for the average diver. New Zealand coasts have some of the finest fishing spots to be found in the world. Some of the most common fish to be found in our waters are schnapper, moki, butterfish, kingfish (yellowtail), leopard, eagle and sting rays, black bream, conger eels, plus many other varieties.

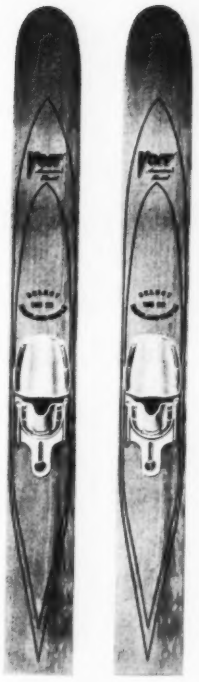
Skin diving is a fast growing recreation and new clubs are forming all the time. While on the subject of clubs I would like to hear from secretaries or members of various clubs with the view of swapping information thus helping to further the sport in safety and public opinion.

If readers of your fine magazine wish to know anything concerning skin diving in this country, I will be only too pleased to help them in any way that I can.

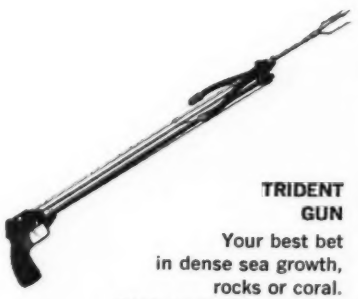
J. W. Lincoln
16 Atiawa St.
Petone, Wellington
New Zealand

(More letters on Page 10)

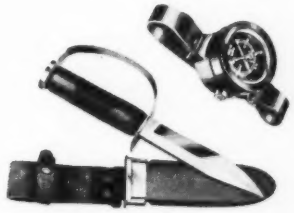
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GUEST

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LETTERS

. . . Being among the world's most aggressive divers, the Japanese must have provided their medical fraternity with plenty of ear interest. Twenty years ago, one Dr. Ono found that sufferers from deafness and allied ear ailments also were noticeably lacking in Vitamin A, and Dr. Ono's finding became a matter of record. Ten years ago, Dr. Joseph Lobel, prominent New York otologist, speculated on the possibility that a build up of Vitamin A in the ear sufferer might work some good, and he started prescribing capsules of Carotene. There were encouraging signs, and the Doctor tried variations, until he came up with compound to which was given the name Anatola, and which is prepared commercially by Parke Davis & Co. Choosing a group of patients having deafness from varying sources, such as sinusitis, catarrh and nerve injury, Dr. Lobel gave injections of Anatola twice weekly, and, within a period of 5 weeks, succeeded in obtaining a definitive result, namely, that in the group of 300 only 17% were not showing any improvement in hearing, and that in those with the maddening head noises called Tinnitus a majority reported substantial relief, and there some cases of complete cure.

The above will be read by those who live with Tinnitus as heaven-sent; but, to all a warning is sounded, viz.: Anatola should be taken only under a doctor's guidance. Also, there is no certainty that Anatola clears up Tinnitus; so, if any good results are obtained from Anatola, it will be of tremendous interest to all of us in the Tinnitus boat to learn about them. All of us divers with Tinnitus know that it came from diving, is a divers' disease, a particularly insidious one, and can happen to anybody who follows the sport. Thus, everyone in diving should take note of ways and means of preventing, or treating and curing, this malady. Otherwise, we'll just have more guys groping around in the dark, while the ringing in the ear, or the ears, goes on and on and on, and never stops. No—never.

Ed Kompass, Jr.
Wappingers Falls, N.Y.

. . . I am working in Sumatra and I would like to do some skin diving. Please advise me where, if any, I may find sunken ships in this area. If you are unable to adivse me, will you recommend possible sources of information?

I am greatly handicapped by distance and the time required to obtain replies to letters. For that reason any assistance you may be able to give me by forwarding this inquiry will be greatly appreciated.

G. M. Talton
814 Gadjah Avenue
S.V.P.M., Sungei Gerong
Palembang, Sumatra
Indonesia

. . . I have designed a self-propelled underwater sled which I think will be the "Cadillac" of the underwater sleds. This sled will be made completely of aluminum and will stand up to 150 psi. This sled contains underwater lights, depth gauge, very unique controls with ballast, and a pressure gauge. Please, if anyone can send any information on different motors and batteries it will be greatly appreciated.

Robert D. Farnsworth
728 Fairview Ave.
Greenville, Mississippi

. . . The coral-girt islands of San Andres and Providencia stand alone in the vastness of the Caribbean Sea, 110 miles from the mainland of Central America, and 250 miles southwest of Jamaica.

"Old Providence" remains one of the most beautiful and most remote islands of the Caribbean. A small mountainous but fertile island it presents reefs and shoals extending for nearly 15 miles beyond the northernmost tip of the island, terminating in Low Cay. Here indeed is a virgin paradise for skin divers.

"Old Providence" practically unknown and abandoned for 250 years was probably the most important island in the new world during the 17th Century. Home of the only English Puritan colony in the Tropics, it was scheduled to displace Plymouth until the colony was annihilated by the powerful Spanish fleet. It was called "Cromwell's Island".

Spear-heading English pirate penetration to the Spanish Main the treacherous reefs of "Old Providence" have taken their toll of innumerable vessels. There is indeed no accounting of unidentified wrecks. One has but to examine U.S. Hydro chart No. 1372 to appreciate the complexity of the surrounding formations.

Those interested in further details on these fabulous English-speaking islands should procure J. J. Parson's "San Andres and Providencia" from the University of California Press.

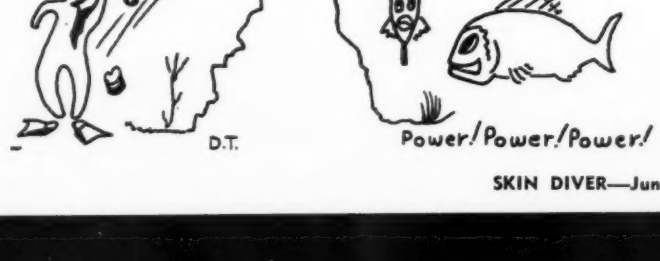
Skin Divers wishing to pentrate a truly virgin area, amazing clarity and bottoms, should contact us for details.

We, of Hansa, have established diving facilities on San Andres island including Scuba gear, Cornelius Compressor and Catamaran boats. A cottage colony is under erection and similar facilities will be available on "Old Providence".

This area is reached from Panama by a Pan American Airway's affiliate, AVIANCA. There is a bi-weekly service. We anticipate arrangements with Pan American Airways whereby skin divers from both coasts can visit an area second to none for skin divers. An area probably the most economical in the Caribbean and truly "free port" which we think offers top value to the underwater enthusiast.

Bob Lee
Hansa, S.A.
Apdo. Aereo No. 4645
Bogota, Colombia

(More Letters on Page 16)



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EASY ON—easy off—without help. Skooba-Skin anti grab rubber lets you pull on suit like a sweater. No need for messy powder. Made of pure gum rubber. Light weight, Stretchy! allows plenty of freedom of action. Amazingly tough too. Resists snags, rips. Pressure tested at 200 ft. Guaranteed leakproof.

100% DRY . . . NO SEAMS TO LEAK

Think of it . . . absolutely no seams anywhere on suit. No paste or cement used. Each Skooba-Skin Suit consists of: SEAMLESS HOOD which seals at face and neck. SEAMLESS LONG SHIRT with new "Turtle-Lock" seal at neck. SEAMLESS LONG PANTS (with feet) which rolls together with shirt at waist to make a watertight seal. Also included is a Speed Patch Kit for quick, on-the-spot repairs in case of accidental damage.



"WORLD'S FINEST DRY SUIT" says Ernie Ryckman, Commercial D iver of Key West, Florida. "The Skooba-Skin's tough, seamless rubber makes it the ideal suit for rough salvage work . . . or for pleasure diving. The only suit for diving at greater depths and in coldest water. I couldn't work for hours underwater without Skooba-Skin. And there's nothing else like it on the market."

WHY FOOL AROUND with patchwork, cement and rubber sheeting? Here's the complete "professional" suit you've always wanted . . . ready to dive . . . and at a price that defies even the do-it-yourself kits.

NOW! Dive with warmth and comfort at any depth . . . in any weather. Your Skooba-Skin suit can be used with any SCUBA unit, face mask or snorkel. Sizes for every physique . . . men or women.

100% FACTORY GUARANTEED!

If your Skooba-Skin Suit is not everything we say—you may return within 10 days for refund of purchase price.

GET TWO SUITS AT THIS INTRODUCTORY PRICE

This offer repeated by popular request . . . HURRY! After July 15, 1958 Skooba-Skin Suits will be available only from authorized dealers at regular price.

Made by the Makers of Famous "totes"

World's Largest Selling Pure Gum Rubber Footwear

NO ORDER HONORED UNLESS ACCOMPANIED BY THIS COUPON

VALUABLE

Money-Saving Coupon

This coupon not good after July 15, 1958

BUY ONE SUIT from your local dealer. Pay him the regular price of $34.95. Then, mail us this Coupon along with box label showing stock number, and sales slip from store. We'll then send you another suit no charge, postpaid.

IF YOUR DEALER CAN'T SUPPLY YOU, you may order direct from the factory. Enclose check or Money Order for $34.95 and this Coupon. **Be sure to state height, weight and shoe size for both suits.** We'll send suits promptly and postpaid. Sorry, no C.O.D.'s.

So-Lo MARX RUBBER Company D6 Loveland, Ohio

ultra pure air for him

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driven by Continental gasoline motor Deliver 113 c.ft.h. (3,2 m³/h) at 2850 lbs sq/in. (200 atm) complete with accessories.

$ 500

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The Grand Bahama Club, West End, Bahama Islands . . . the site chosen for the 1958 National A.A.U. Skin Diving Championships, the International Open Tournament and the Women's Open Tournament. The Club and the spacious grounds are nearly surrounded by ocean reefs and miles of gin-clear fish-filled water.



Illinois skin divers explore the waters picked for the August 17 Tournaments. Divers are (l-r) Perry Caldwell, Louis Kole, Ben Ruben and Jack Springer, all from the Chicago area.



AAU Skin Diving Tournament Officials (l-r) Dr. Jack Wickham, John Slack, Engene Vezzani, and George Krasle, along with Serge I. Birn and Harold Aycock, spent a week end "investigating" the West End as a possible location.

International Champions Invited to Grand Bahamas

MIAMI, FLA.— Invitations have been issued to championship skin diving teams in Italy, France, Yugoslavia, Canada, Central and South America to compete with Americans in the first Open International Skin Diving Meet scheduled for the Grand Bahama Club in West End, Grand Bahama Island, on August 17.

Sponsored by the Amateur Athletic Union, the competition in the International Open Tournament will be timed to run concurrently with the U.S.A. National Skin Diving Championships.

Eugene Vezzani, Chairman, A.A.U. National Championship Committee, announced that teams from the United States, Europe, Canada, Central and South America will be fishing in the same general area and at the same time, but that each tournament will be judged independently.

The team scoring the highest of the two separate events will be awarded the Perpetual Grand Bahama Cup as international champions, and permanent awards and medals will be given the winning team contestants.

Representing the United States in the International competition this year is the Long Beach Neptunes Club Team, U.S. Champions in 1956 and 1957, and fourth place team winners in the European Underwater Spearfishing Championships held in Yugoslavia in 1957.

Invited to Grand Bahama is the three-man team and captain from Italy who won first place in the 1957 Yugoslavia internationals, the second place Yugoslavian team, and third place French team. Championship teams representing Canada, Central and South America are also invited to compete.

This, the 9th annual championship meet, is the first ever sponsored by the A.A.U. outside the continental limits of the United States. The site is located in the Western Bahamas, 65 miles due east of Palm Beach, Florida.

Following a recent inspection trip to the Grand Bahama Club, Vezzani ansurrounding the island are much like those found in the Mediterranean. Enormous grey rocky ledges, caves, and valleys encircle the area, and shelter a seemingly inexhaustible supply of sea life.

The water depths range from shallow to eighty feet around Grand Bahama, with visibility clear from seventy-five to one hundred feet. Sponges, coral and shells in every variety are found there, Vezzani stated, and even for the experienced diver, the area is virgin in every nounced that the geological formations respect. ➤

AAU Skin Divers!



High Adventure . . .
Special Low Rates Now Await You at the Grand Bahama Club Tournament Site for the 1958 AAU Skin-Diving Championship!

For the first time in its history, the AAU is going out of the United States for a championship tournament! Picked for its outstanding location...the Grand Bahama Club at West End, Grand Bahama Island, is just 65 miles off Florida's southeast coast —and just 3 minutes away from coral reefs, flats, and deep seas that are teeming with game-fish and sea life of every description.

Modern accommodations, colorful, clear Bahamian waters and complete skin-diving facilities, including air compressor, make the Grand Bahama Club the first choice of the AAU. Make it your choice, too!

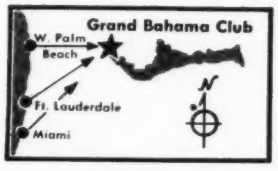
Plan Now to Attend the AAU Meet!

★ See top American divers in action for tournament awards!
★ See the nation's *first* Women's Open Championship!
★ See the *first* Men's International Open Championship —European, Canadian, South American and American championship teams in competition for the perpetual Grand Bahama Cup!

Plan Your Vacation Now at the Grand Bahama Club!

★ Dive where the champions dive!
★ **Enter the Grand Bahama Club's Amateur Summer Open Tournament—limited to AAU members only. Endorsed by the AAU and conducted according to AAU rules, you can compete for special recognition and prizes!**

Special low rates available to AAU members—Modified American Plan



Low air fares from
Miami
Fort Lauderdale
Palm Beach

Write today to Buzz Campbell, resident skin-diving instructor

THE GRAND BAHAMA CLUB
U.S. RESERVATIONS OFFICE
117 N.E. 1st AVENUE • MIAMI 32, FLORIDA
or See Your Travel Agent

DIVERS FIND NEW FISH SPECIES

The cold northern waters of the Eastern Seaboard have never yielded the numerous and exotic game fishes of the tropic seas. Spearfishing enthusiasts have had to content themselves with occasional catches of striped bass, blackfish, cod and flounder.

Five years of intensive research by many amateur ichthyologists have resulted in positive identification and cataloguing of many other fishes heretofore unrecorded. Most are harmless to skin divers and though only a few are edible, most can be considered fair game for occasional target practice.

Many of the fishes listed have close relatives in other waters and skin divers will quickly recognize the resemblance and can further enjoy their sport by adding to this list.

Surface Swimmers

Brown Lumpfish

Long Island Whitefish

Daily News Center-Fold Fish—Local name will vary, sometimes found on bottom—resembles ray family.

Worn-out Broomfish

Half-Eaten Orangefish

Shiny (Rusted) Chum Canfish—Two varieties seen, rusted specie usually a bottom feeder.



"I wonder what the guys took off for . . . ?"

Tar Covered Mopfish

Lumber Fish—Seen in many sizes, in various bright painted colors, or of natural woodlike appearance. Sometimes found on bottom.

Windblown Beach Ballfish—Very common when offshore wind prevails. Many colors and sizes.

Rusted Rheingold Fish

Shiny Schlitz Fish

Crumpled Kreuger Fish—These three have various local names and are seen both on surface and bottom.

Popsicle Stickfish—Smaller relative of lumber fish.

Oil Encrusted Light Bulb Fish—Also seen on beaches above tideline.

Bottom Feeders

Broken-Necked Bottlefish — Generally brown, green or transparent, green coke variety predominates.

Torn Bathing Capfish—Very sluggish, usually white in color.

Lost Finfish—Common where skin divers go through surf.

Stolen Towelfish—Relative of capfish, common off bathing beaches.

Cardboard Cartonfish—Usually brown in color, size varies. Resembles skates and ray family.

Battered Beach Umbrellafish — Seen very often after hurricanes, squalls or strong offshore winds. Also related to beach ballfish. Another close relative is chairfish.

Unglued Labelfish—Seen in many sizes and colors, related to bottlefish, sometimes schools near latter.

Half-Halterfish — Very common near heavy surf.

Busted Tacklefish—Many types, always on or near rocks, can be captured easily by hand and although of no value to skin divers are highly prized by line fishermen.

Compiled by

Mike Ward and Cal Smith,

Underwater Fishermen of New Jersey



Introducing the New

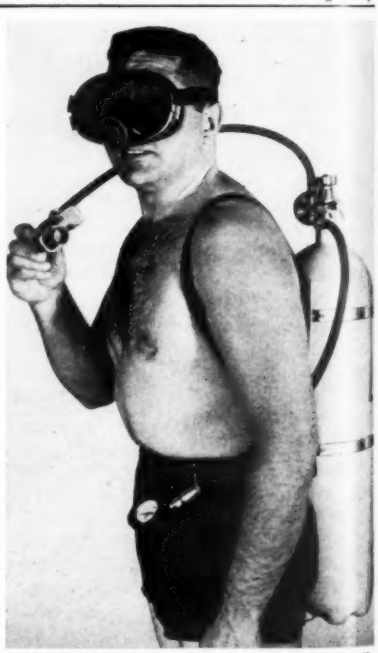
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New PRO "Custom" combines every essential, plus more feature "firsts" than ever. The most scientifically advanced and proven equipment of its kind.

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Send FREE complete details on PRO.

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REGULAR PRICE	SIZE	WAIST	WEIGHT	HEIGHT
$75.00	Small	28-34	130-155	5'3"-5'7"
	Medium	32-36	150-175	5'6"-5'10"
85.00	Large	34-38	170-205	5'9"-6'1"
90.00	X-Large	36-40	195-235	6'0"-6'3"



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First quality and brand new. This terrific low price made possible by CENTRAL'S fantastic buying power. This is the answer to your underwater suit problem. Here is a "dry" suit that needs no underwear because it is also a "wet" suit. The seams are taped, reinforced and vulcanized. The cuffs are tight; the pants and shirt roll together; the attached hood is joined by the same strong rubber; soft, pliable, yet extremely tough. The water cannot get in ("dry type") but can only seep in slowly ("wet type"). Seeping in slowly, the small amount is easily warmed by the body. (No need for underwear.) This extremely durable 3/16" skin both sides foam rubber suit is imported from France. The full length pants have rubber suspenders. The long sleeved shirt has the hood attached. You also get boots, waist sealing ring and "Rubber Dust." USED BY THE UNITED STATES, BRITISH, FRENCH AND ITALIAN NAVY FROGMEN. EXCELLENT FOR SALVAGE OR SPORT DIVERS.

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CLUB PRICE (3 or more) **$29.95 ea.**

Another great buy by CENTRAL. Brings you a famous make 2 ply ("tear proof") half sleeve shirt and knee length pants that roll together for a fabulous dry shorty. Perfect for the summer diver or water skier. Original price for the set was $33.00. Now you can have both shirt and pants for only $7.95 for the set. Brand new—First Quality.

THAT'S RIGHT, ONLY..... $7.95
Shirt and pants complete

Shirt only $4.95



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New Aqua-Matic 2 stage Aqua Lung regulator with "20 minute" tank. Quality tested "Cousteau Gagnan" process. Is complete with automatic reserve. Top quality harness included. Tank is made for underwater, not inferior surplus cylinder. Free Book "Diving with the Aqua Lung," with each unit. Tanks filled and ready for use. We pay shipping charges. All for $44.50

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3½" diameter raised 3-D Metal Scuba Diver

$1.95

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Weighted staff with floating ball and flag, complete. Ball has one eyelet so area can be roped off for diving. 2 eyelets on staff for flag. Ball can be adjusted on staff.

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Finely detailed, silver or gold finish. Double tank diver with torpedo type camera set. Plush gift box. Set $4.95. Tiepin only $2.50 Fed. Tax Incl.

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Built in reserve, Air Flow hoses, Hope-Page mouthpiece.

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⅜" Lucite Camera case with handles made for your Camera. Kit includes camera lock, 2 controls, glue and directions with finished case. You set in controls. Reg. $69.95—Now $44.50

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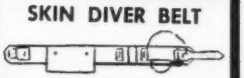
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New, Improved, Genuine

PORTABLE 40,000 CANDLEPOWER UNDERWATER SPOTLIGHT

Used by Peter Gimbel and Ramsey Parks for illumination of first underwater motion pictures of sunken Andria Doria at 250 feet!

The first production of Richards sensational Underwater Spotlight was completely sold out! Thank you for your tremendous response . . . and thank you for your recommended improvements which are now incorporated in our new unit!

No wires to connect; no spring contact to engage. Sealed beam headlight throws a brilliant beam for ½ mile. Extra heavy electro-plated chrome finish. The improved unit now has a heavy brass open flush-type toggle switch that can be completely cleaned and drained. Easy thumb control. Adjustable head. All copper contacts; extra heavy insulated covering; rubber base plate; insulated polyethelene washers.

Steel clad multi-cell, this especially pressurized battery gives more than 3 times the service than does the old style lattern batteries. 10-12 hrs. of continuous operation or 18-24 hrs. of intermittent service. Replacement battery installed in seconds. *Not commercially available.*



$14.95 ppd complete, with negative and positive insulated thumb screw connectors that can be reversed after each dive to prevent electrolysis.

2 for $25.00

Extra pressurized 6 volt battery (available only at Richards) **$2.95**

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LETTERS

. . . Michigan Skin Diving Council, Mrs. Jean Crittenden, Sec., 922 West Huron St., Ann Arbor, Michigan. Dear Jean: I would like to apologize to all of the members of the Michigan Skin Diving Council, on behalf of the Y.M.C.A. Cuadro Pescadores, for the mis-information which appeared in the May issue of Skin Diver Magazine concerning the recent legislation that legalized spearfishing for rough fish in Michigan waters.

As a charter member and Past President of the Cuadro Pescadores, I believe that I can speak for the entire membership of this club when I say that had it not been for the enthusiastic support of each and every member of the Michigan Skin Diving Council, passage of either the Spearfishing bill or the Divers Flag bill would have been impossible.

No one club, individual, or small group of individuals can honestly take credit for these accomplishments. If it had not been for the hundreds upon hundreds of Michigan Council members who exercized their constitutional right by writing to their Representatives, Senators and also to Governor Williams, the great strides toward more enjoyment and safety in our wonderful sport would never have been made.

Ted B. Nixon
Flint, Michigan

. . . I have two first issues of the "Skin Diver." Do you happen to know of any one who might like to purchase them as collector's items?

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P-2 Dry Suit

Two-piece dry suit, waist entry. Constructed of two-ply gum rubber, 8% neoprene. Outside color blue or black. Reinforced intersections and fused tapered seams, insuring absolute water tightness.

W/Hood $49.50
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PWSS

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Constructed of ⅛" closed cell foam neoprene rubber. 400% Stretch factor. Reinforced seams and intersections. NYLON zippers.

W/O Pants $35.35
W/Pants $52.30

PW-2

Wet Suit

Constructed of ⅛" or 3/16" closed cell foam neoprene rubber. Reinforced seams and intersections. NYLON zippers. 400% Stretch factor. Black only. Stripping in black, red, green or yellow.

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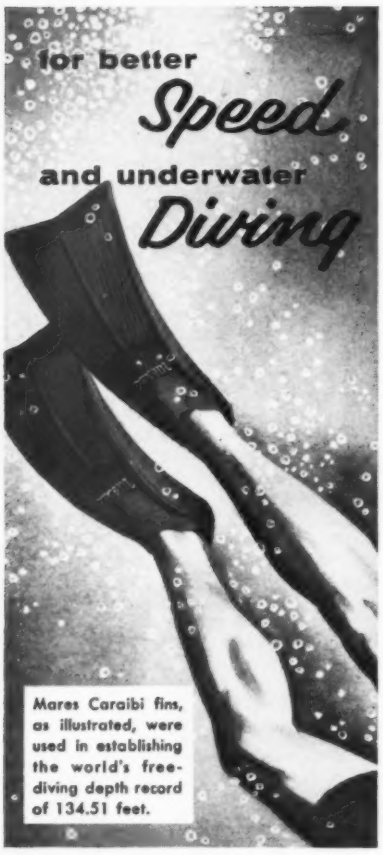
☐ **I also desire your Hollywood tour described above for ☐ Sept. 3-5; ☐ Sept. 13-15.**

☐ **Enclosed please find $....., representing deposits for ..... persons, at $50 each. (Refundable if you are unable to go. Balance due by August 5.)**

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Address.....

City & State.....**Phone**.....



Mares Caraibi fins, as illustrated, were used in establishing the world's free-diving depth record of 134.51 feet.

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MARES SWIM FINS

Mares swim fins are designed for the discriminating skin diver—the one who won't accept anything but the best. Now is the time for you to get a pair of these record-setting fins—you'll be amazed at the difference!



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- Foot pocket is slipper-type for snug fit and complete protection.
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- Foot pocket and blade are made of highest-quality rubber to give maximum performance.

Mares swim fins are exclusively distributed by:

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"Preferred for Performance"

UNDERWATER COLOR PHOTOGRAPHY WITH A BOX CAMERA

By ERNEST H. BROOKS

Founder and President
Brooks Institute of Photography
Santa Barbara, California

HOW many times while skin diving have you observed a striking underwater scene and said to yourself: "If I only had a color picture of that!"

Well, you no longer have to wish, for it is now possible for every skin diver to take color pictures underwater—and with nothing more complex than a watertight box camera.

The key to this amazing photographic development began with the appearance of high speed color film. The unbelievable latitude of such films permits color photographs to be made under the most adverse lighting conditions.

Recently I went on an underwater "photographic expedition" into the waters off Guaymas, Mexico, to get some unusual motion picture footage for use in a film on careers in professional photography being produced by advanced students at the Brooks Institute. During this project I had sufficient time and opportunity to thoroughly check out high speed color film for both still and motion picture photography underwater.

After carefully evaluating the results, I found that, properly handled, high speed color film can record the full beauty of the wonderous sights which every skin diver finds beneath the sea.

I never cease to marvel at the beauty that abounds everywhere beneath the water. It is my feeling that few people realize the great pleasure of skin diving until they make that first highly exciting trip downward and gaze in awe at the multitude of beautiful things that are to be seen and found everywhere. I also know that skin divers would like to make a photographic record of their underwater "expeditions" without becoming involved with cumbersome or expensive photographic gear.

If all skin divers could take color pictures underwater with simple equipment, I thought, two goals could be realized. First, skin divers could build up an interesting file of their underwater adventures. Then, as their friends viewed these transparencies, they, too, would become converted to this healthy and exciting family hobby.

At the completion of my motion picture work, I laid aside my heavy professional photographic gear and scuba equipment and turned to the problem of the amateur.

"How," I asked myself, "could every skin diver be equipped to shoot color underwater?"

I had already determined that sporting goods dealers and skin diving supply houses featured an extensive array of economically-priced watertight box cameras. Most of these are similar to the time-honored Brownie, known to amateurs throughout the land.

Another type is a two-piece molded plastic case into which the essentials of a box camera are built. Still another type permits the conversion of land box cameras to underwater use. This consists of a flexible plastic bag with a rigid clear glass faceplate which seals to the bag with a clamp. All that is necessary is to place the camera in the bag, secure the faceplate and operate the controls by manipulating them through the flexible plastic.

Selecting several types, I then proceeded to make a series of tests with Daylight Anscochrome, a high speed color film with an ASA index of 100. After testing the film in the various cameras and under different conditions, I compared the results and reached the conclusion that it is possible to shoot color by existing light with a box camera and high speed color film to depths of twenty feet.

Here is the procedure for you to follow in order to get the same results. First, load your camera with a high speed color film with an ASA rating of 100, then dive beneath the surface and start looking for color pictures. With a box camera you do not have to make any camera adjustments, so all that is necessary is the careful aiming of the camera and tripping of the shutter.

However, remember this important fact: all exposures on each roll must be made in either the zero to ten foot level, or in depths from ten to twenty feet. This is very important, as the diminishing amount of light below ten feet requires that film exposed in this area receive special processing, while film exposed above ten feet does not.

Indicate "ASA 200" on each roll exposed below ten feet and take it to a custom laboratory, specifying that it be



Carrying a 16mm Bolex motion picture camera, Brooks climbs aboard his boat after a shooting session in a bay near Guaymas, Mexico. During this trip to Mexican waters Brooks experimented with different types of fast color films in simple cameras. Read the interesting results of his findings in the accompanying article.

processed for a film speed of 200. For film exposed above ten feet, just send it through normal processing channels.

Remember, DON'T mix exposures on one roll between the 0-10 and 10-20 foot levels! Again, make certain you mark those rolls exposed below ten feet so that they can be specially processed to compensate for the higher film speed. Otherwise, these transparencies will be greatly underdeveloped, resulting in a complete failure to capture the colorful beauty you are seeking to record.

By keeping this variation in mind while diving, you will find it possible to turn out good color pictures of your favorite sport. In taking pictures underwater, try and keep the camera as steady as possible, and make certain you squeeze, not jerk the shutter release. When shooting movement, such as fish or another diver, try to catch the momentary lull just after peak action, in order to minimize possibilities of blurring the photograph.

Your underwater camera can also be used with color film on land. However, make certain you don't use high speed color film, or your pictures will be greatly overexposed, as a box camera lens cannot be adjusted to compensate for the greatly increased amount of light found above the surface. Choose a color film with an ASA index of 25 or 32 for this purpose.

If time and circumstances permit, it is suggested you expose several rolls of film at different depths, in order to determine how local water conditions affect your photographic efforts. After processing, you can evaluate the results and determine if any variations are necessary for the particular body of water in which you are diving.

So, get a watertight box camera, load it with high speed color film and make your next skin diving expedition a camera tour beneath the sea. You will find it is not only a pleasing variation of skin diving, but also a means of providing yourself with a permanent record of your thrilling journeys into the deep.

FOR MORE exploratory FUN



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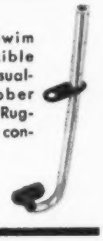
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SKETCHING THE BRINY DEEP

By RUSSELL L. SWANSON



Russ Swanson merges from a water-filled rock quarry after completing a scene of an abandoned truck.

For a number of years when diving in the ocean, I have often wondered what it would be like to make a sketch or a painting of the sea bottom, to capture the constant changing scene of life around rock piles and jetties. But technical difficulties pushed the idea from my mind. Then I paused and considered: Two-thirds of the world which is covered with water is known somewhat to science and photography, but almost completely unknown to the artist. There have been some weird and wonderful under-the-sea illustrations done in studios from imagination, but very few on the spot.

One of my inspirations to paint the world beneath the water came from reading John Craig's book, "Danger Is My Business," which tells of his wife, in a deep sea rig, making underwater sketches with crayons. That helped to start me.

There's a special excitement — and there are special difficulties, too—in trying to capture "on location" the ever-changing panorama of seaweed, fish and sunken wreckage. During the past several years I've been at it, I have learned more about the sea than I'd learned in a lifetime of swimming and diving.



Underwater drawing is usually a one-man proposition, but the diving should be done as a team. To find a buddy to accompany you may not be easy, as he may prefer to go spearfishing or exploring. Two artists working together may become too absorbed in their work to notice if the other is all right. If both agree on the same subject to draw, a rope tied to each diver may solve your problem.

I hope the following ideas may be of some value to those of you who might like to try underwater drawing. It can be a very fascinating adventure.

Whether you plan to paint with crayons, oils or colored pencils, your best working surface is a small clip board, 8½" x 11", with a heavy grade of white paper or card stock and thick coloring crayons which are sold in dime stores. You can carry the crayons in a pouch hung on a belt, or tied to string about a foot and a half or two feet in length. This in turn is tied to a belt. There are advantages and disadvantages with both methods. The advantage of the pouch is that everything is in one compact place on a belt within easy reach. The difficulty with this method, how-

ever, is that if the pouch is not closed securely during a dive, you may lose the crayons. Also, one has to constantly be pulling the crayons out and putting them back (with fingers getting colder and more numb by the minute) and you may drop them in the sand or mud. Attached to the string, your colors are in sight; you can pick them out and let go of them without losing them. The drawback with this method is that the strings get tangled, and sometimes they'll wrap themselves around the ladder of a diving boat. The crayons may break more readily in choppy water than if they were in a pouch. I suggest that you try both methods to see which suits you best.

Using a larger board is fun, but tricky. A 16" x 20" x ¼" plywood board can be held down with your hand or with a small lead weight attached to it. When I first started out, I used a board over three feet in length and about ⅝" thick—it was like a small raft, and took about four to five pounds of lead to sink it. If the current changed, or I held it at the wrong angle, it would catch it like a sail and I would take off head over heels on the bottom, or smash into a rock pile festooned with sharp-edged mussels. After a few such sailing trips, I decided to use a smaller board —less hazardous.



Underwater sketching and painting has many complex problems . . . the author determined to combine his hobby with his vocation has solved many of these with time and diligence.



Swanson sketches made in quarries of abandoned equipment.



You'll want to experiment a lot to find which materials work best. That's part of the fun of submarine painting. For instance, in using oil colors, is it better to use canvas, or some type of metal surface? My policy is simplicity and economy; so I decided to use some aluminum sheets that had been used for an offset printing press. I roughened the surface with sandpaper so that the paints (applied with a palette knife) would adhere. In one corner of the board I laid out some pigment for mixing. The paint stays put, surprisingly! This is one of the easiest ways to have your colors right in front of you.

A trouble I have found in working with oil is that it is too slow to catch underwater motion and action. Oils give a rather heavy effect because the pigment has to be laid on without turpentine for thinning out.

Another trouble is that some shreds of pigment float out in the water and end up painting the artist. I remember the time in warm water when I didn't bother to wear a wet suit and, on coming out, I was hailed as the walking rainbow or the "thing." I was covered from head to toe with bits of oil paint and spent the rest of the day trying to get it off. Maybe some of you have obtained fine results from using oils down under. If so, I'd like to hear about your technique.

The best method I have found so far is to use a combination crayon and oil base pastel stick. The trade name is called "Cray-Pas" made by Sakura Company of Japan. The sticks can be bought in two thicknesses. I would advise getting the thicker size as they are more durable. They are priced at $2.50 and up per box of assorted colors. For the drawing surface, I use a coated paper that is made for oil paints called "Highlite" Canvo Sketch Tablet. This generally runs about twelve sheets, size 12" x 16" for $1.25. Or you can get a larger size, 16" x 20". There are similar products on the market which you can try. I prefer this combination because Cray-Pas are easier to work with than oils and they do not wash out. They can be smoothed out like pastel and when dried out, the drawing can be sprayed with either pastel fixative or demar varnish, the latter if you want an oil painting effect. I usually coat the paper with spar varnish to help stiffen it, so it won't wrinkle under water; or the paper can be glued to a thin board. I tape a sheet to each side of the board (or secure with flat-head thumbtacks) so I can do two sketches before coming up.

In deciding which medium to use for your painting, keep in mind that under water you are working against time. At best you may have two or, at the most, three hours, as compared to time unlimited in the studio.

The constantly changing movements of the sea, which is one of its fascinations, can be quite a problem to the artist, for everything seems to be in motion. When I have had to come up to the surface, either from lack of air or because I was cold, and then made my descent again, I've had a hard time finding the original spot where I was. Perhaps the tide had changed and visibility was poor. Once when working near a jetty and the water was getting stirred up, a friend suggested using a compass on the drawing board. There have been times, while I would stop to pick out some colors, when I would turn slightly and be carried away a few feet. Turning back, I'd find that my subject had disappeared.

There are limits to what you can expect of an underwater masterpiece! I have never been able to get the light touch I try for. The submarine artist is always working through the density of water and has to keep pushing the water from between the crayon and the

(Continued on Page 39)

CARIBBEAN HOLIDAY

By BILL STEEN

Photography by

Burton McNeely



Bill Allen, my diving partner, and I were spending the summer down in the Florida Keys. Late one evening we were shooting the breeze with Art McKee and his wife Gay about different diving areas when Gay started telling us about her home, Grand Cayman. Grand Cayman is a Dependency of Jamaica and is located North West of Jamaica and to the South of Cuba. The island itself (population about 6,500) is roughly 22 miles long from east to west, with a maximum width of eight miles. The more Gay told us about the island the more we wanted to go, but during the following days of diving we forgot about Grand Cayman. About a week later we received our July issue of the "Skin Diver" and in the letters to the editor was a letter from Lou Maxwell extolling the beauty of Grand Cayman. That did it! Two days later we were winging over the Caribbean on the way to the Cayman Islands.

Upon arrival at the airport we were met by several offers of diving trips and hotel accommodations, but we had dreams of staying on the beach in an old abandoned shack. The mosquitoes soon put a stop to this. By that evening we were installed in the Pageant Beach Hotel with room and board for $60.00 a week. The food was delicious and the rooms were extremely comfortable. After a meal of turtle steaks and assorted tropical foods, we got in contact with Tom Hubbell, the local skin diving authority and owner of all the diving facilities on the island. We arranged with Tom to go out the next day in his sixteen-foot outboard from the Cayman Yacht Club which is owned by Jim Ford.

Bright and early the next morning after a hearty breakfast, we took off on a plate-glass sea; within a few minutes Tom informed us we were over the reefs. The combination of the reefs and the crystal-clear water formed an endlessly fascinating vista of coral and other submarine life. The reefs rose from a sand bottom sixty feet below to within five feet of the surface, and were covered with every kind of coral we had ever seen in the Keys or the Bahamas. The reefs were catacombed with caves and tunnels which were loaded with every conceivable species of marine life and over everything lay a curtain of iridescent marine tropicals. The water visibility ranged from 150 feet in the bay to 250 feet a quarter of a mile off shore. Tarpon abounded in the passages between the reefs, and occasionally a giant Manta Ray would sail overhead. In the Harbour two wrecks lay slumped in that permanent immobility which makes the ocean bed appear to be their own natural element.

The next day we piled out of bed and went in search of suitable means of transportation. For traveling around the island we were able to rent bicycles for $1.00 a day, and for our diving we rented a native type sailboat for $21.00 a week At present, Tom Hubbell has a small compressor and air is available for $4.00 a tank. For those who plan to travel to this Caribbean gem, it is best to leave tanks at home as the price of air is the same whether you use one of Tom's tanks or your own. By the



Above — Tom Hubbell pauses on a dive in the "Cayman Wreck" to pluck a lobster from its hiding place.

Left — Abundance of marine life on the South Shore of Grand Cayman prevails for the photographer and the diver. Parrot fish and Nassau Grouper are common.

Skin Diver's Playland . . .

LONG ISLAND

By FELIX RIVERA, Jr.

Although Long Island waters do not abound with the beauty of coral reefs of the Caribbean or the giant kelp forests of the Pacific, they do offer some interesting underwater scenery. Jetties which extend far out into the ocean have an intricacy of caves teeming with game fish. Sea Anemones and Sea Urchins, found in abundance on the jetties and rock pilings, help to create the scenery embellishing our northern waters.

The average water temperature in Long Island during the summer is in the low 70's; however, temperatures fall much lower in the late fall and spring. Visibility underwater is extremely variable, an average of 15 feet is considered good, although 25 feet is not uncommon. While the northern side and tip of the island are excellent diving areas, the south side is not good for the average diver, since waters are very shallow and have poor visibility.

Divers in our waters must wear some type of protective rubber suit. The surface water may be in the 70's, while a dive to 20 or 30 feet will automatically result in a drop of almost 15 degrees in temperature.

Wet and dry suits are popular; however, the majority of divers prefer the wet suit. During the warmest summer days, the suits are not used. The more popular fins are the full foot-pocket type, which protect a diver from the barnacle-encrusted rocks. The rubber-powered spearguns are popular here, although many divers use the short spring guns which are excellent for more maneuverability around jetties and rock pilings. Extra rubbers are usually added to the rubber-powered guns. The line that comes with a newly-purchased speargun is discarded by divers, because they prefer a stronger line, usually ten to twelve feet long. Various types of floats may be used by divers, but they are not very popular.

Unlike divers in clear waters, who can spot their prey from the surface, divers in northern waters must descend rather deep in their search for a sizeable fish to spear. This is quite fatiguing, due to the cold and sometimes rough water and limited visibility.

CO_2 guns are not used for spearfishing since no large fish are found in these waters. Stringing of fish to line attached to you is safe, since no fish dangerous to man inhabit these waters. Some divers string their fish to their floats, leaving them free of lines.

Thus is can be seen how spearfishing conditions can differ in diving areas. What may be done in our waters safely would be inviting trouble in warmer waters.

In regard to game fish, the most common are: the Blackfish (Tautoga Onitis) and Striped Bass (Roccus Lineatus). Occasionally Bluefish, Stingrays, Flounders and Sandsharks are speared. Of these, the type most often speared is the Blackfish.

The Blackfish is related to the wrasses of coral reefs and has an average weight of ten to twelve pounds. It is a rare occurrence when a skin diver spears a Blackfish weighing over twelve pounds. The largest I have seen weighed sixteen pounds. Young Blackfish are medium brown, with dark brown stripes going vertically across their bodies, while the larger type has a white chin and belly. They are scaleless, having large teeth in the mouth and additional molars in the throat; the molars aid in crushing mollusks. They are found in deep water near jetties, pilings and shellfish beds, feeding on mussels and other mollusks. In winter they go into deeper waters where they stay in a semi-dormant state until early spring.

Divers have hunted striped bass with some success. It is a silvery fish with about six olive green stripes going horizontally along its sides. It is an extremely alert fish weighing up to 90 pounds. The largest speared at Long Island last summer was about 48 pounds. Large stripers usually travel alone, while smaller ones sometimes travel in schools and it is quite a sight to see twelve or fourteen stripers swimming together. It feeds on crabs, shrimps and other invertebrates. Since they move inshore to spawn during the winter, they can be found close to shore in early fall and spring and off rocky shores, close to the beaches.

Other fishes speared in Long Island waters are: Flounders, usually weighing from two to four pounds; these may be encountered on sandy bottoms; Stingrays, which may grow to 60 pounds, and an occasional Sandshark and Sea Bass also provide sport for the diver.

Underwater photography is practiced to some extent, although our coastal waters do not offer the clearness of tropical waters. Lungs are generally used for this purpose, although they are not popular. I have seen several quite satisfactory films taken at the entrance to the harbor of Lake Montauk. The best location for taking underwater photographs is in the oceanic waters off Montauk Point, which offers clear water with less sedimentation.

There are several good places on the Island in which to dive. The Point itself, Blackfish Rocks, which were named after their inhabitants, the Ditch Plains, the site of last year's East Coast Spearfishing Meet, and the Caswells. Going westward, on the southern side of the Island one may dive at Broad Channel, and the Silver Point Jetty. At Rockaway Point, diving takes place in the halfmile long Breezy Point Jetty. Beyond this area, spearfishing is generally poor.

So as can be noted, our area is not the best, but it may be considered a good diving area for the average enthusiast. Fishing is generally good, and the underwater scenery is interesting. Is it any wonder why Long Island is a Skin Diver's Playland.

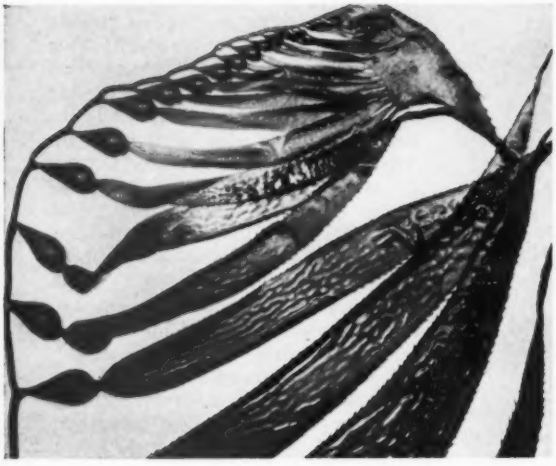
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way, airfare roundtrip is $69.00 if you stay less than 17 days and $89.00 if you stay longer. A smallpox vaccination is necessary before returning to the U.S.A.

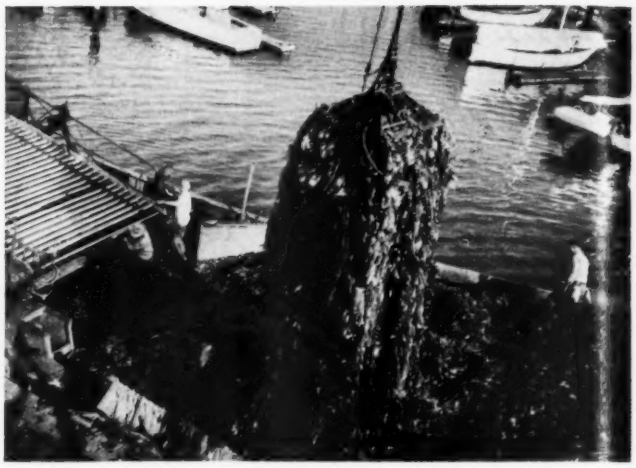
Because of the cost of air we all became rather adept at snorkeling out of necessity (we were on a tight budget), and by the end of the trip 60 foot working dives were not unusual. Later that week on a trip with Tom Hubbell, a Manta Ray was speared. When landed we found he weighed 340 pounds and had a wing spread of 10 feet. We were curious if this was a record for skin diving but we had no way of knowing if it was. Tom mortally wounded the Manta Ray with the first shot from his Hammerhead and after a half-hour of hard work we had the Ray tied to the bow of the boat. The most amazing thing was that this whole episode took place in over a hundred feet of water and snorkels were the only breathing equipment.

Tom Hubbell is one of the best divers we have seen; he consistently speared fish at depths up to 90 feet, and the lengths of his dives never ceased to amaze Bill and me. Bill's main subsurface activity is the taking of underwater movies, and he shot about 400 feet of film on Grand Cayman plus another 1,200 in the Florida Keys and the Bahamas.

As a final point I would like to say that the people of Grand Cayman are among the most genial in the world and caused our visit to be one of the most enjoyable vacations we have ever had. For any information on diving facilities write to the Spear-King Aqua Sports, P. O. Box 74, Grand Cayman Island, British West Indies.



Here's the Giant Kelp which is found offshore in waters 40 to 90 feet deep. Floating air sacs help it grow toward surface.



Southern California is one of the few places in the world where Giant Kelp (Macrocystis pyrifera) can be harvested in commercial quantities.

Harvest from the Sea

By ANDREW HAMILTON

Copyright 1956 Automobile Club of Southern California

The contraption at the bow of the "C. L. Arques" cuts the seaweed, scoops it up on the deck of the flat-bottomed boat.



Near Berth 42 in San Pedro's outer harbor, an odd-looking craft may be seen chugging into port. Among the graceful yachts and functionally-beautiful power boats this one's ugly as sin: flat bottomed, broad of beam, with a sharp-blade mower at her bow. But strangest of all is the greenish-brown cargo piled on deck like so much wet sauerkraut.

Ask a fisherman about her and he'll say:

"That? It's the *C. L. Arques*—seaweed boat."

Those who have time to stick around will see the drippy cargo grabbed up by a double-jawed hook and plopped into a hopper on the dock. Then it's chewed up and put into a giant gas-fired rotary drier where 90 percent of the water is removed. The result is a mass of tiny, dark-green flakes with a pleasantly salty taste—which can be further granulated or powdered.

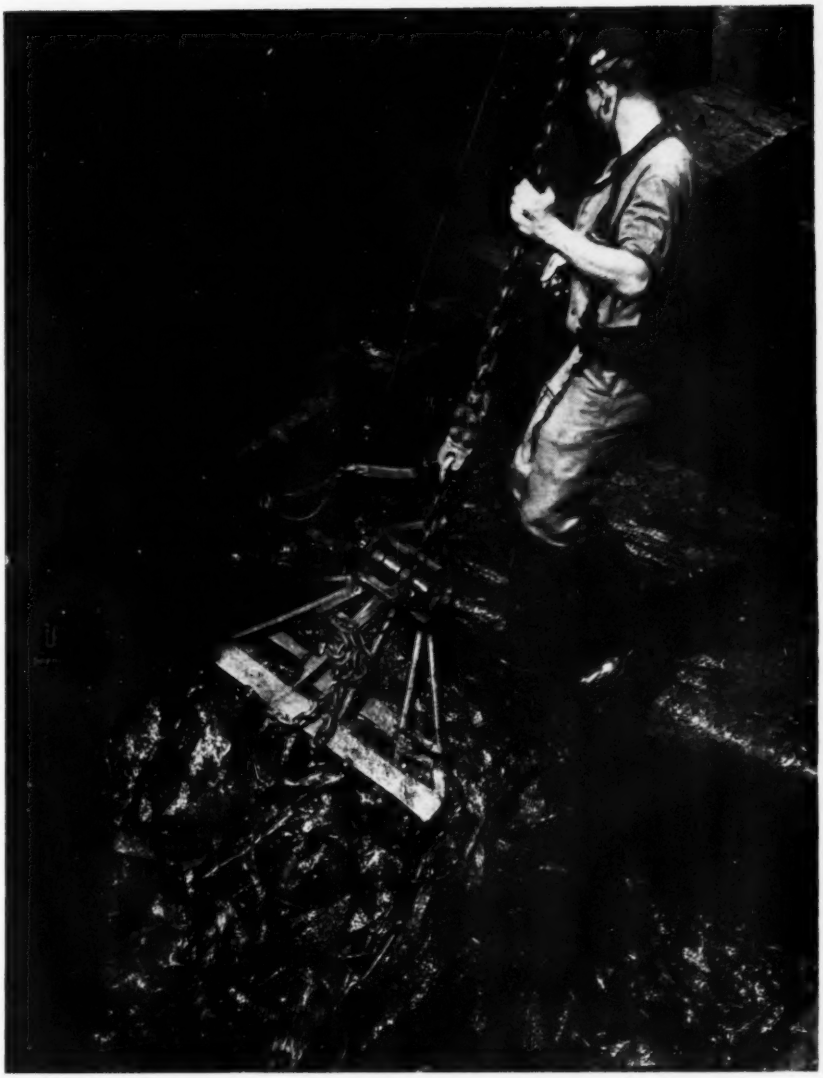
Seaweed harvesting and processing is one of California's unique industries. Little known to the general public, it represents a multi-million-dollar investment and provides jobs for several hundred persons in San Pedro, San Diego and Port Hueneme.

While more than 1,000 species of seaweed have been found along the Pacific Coast of North America, Southern California is the home of the Giant Kelp of *Macrocystis pyrifera*. This is one of the few places in the world where it can be harvested in commercial quantities. Underwater forests of this seaweed—some of which are two miles square—exist from Point Arguello above Santa Barbara to some distance below San Diego along the coast of Baja California.

The Giant Kelp is found in a belt roughly a mile wide along the coast in waters from 40 to 90 feet deep. This plant has no roots—only root-like tentacles called "holdfasts" which cling to the rocky bottom. Floating air sacs hold the plant erect so that it may grow toward the surface.

The Giant Kelp, whose ancestry dates back to the earliest plants on earth, is a rugged specimen. It must live in areas of strong ocean currents because it absorbs its nutrition through its leaves. Also required is plenty of sunlight, which, say divers, penetrates sometimes to a depth of 90 feet in clear water. Because Southern California provides these two necessities for growth—strong currents and sunshine—kelp harvesting is a year-round industry here.

Harvesting of Southern California's offshore waters began during World War I. In 1917, when the United States went to war with Germany, we lost our principal source of potash—vitally important to agriculture. American science and industry developed several new sources of potash, including the Giant Kelp.



A double-jawed hook grabs the dripping seaweed out of the hold and dumps it into the hopper on the dock. There it is chopped before going to a giant, gas-fired rotary drier.

For a period of several years, during and just after World War I, as many as 10 kelp-processing plants existed along the California coast, from Point Conception to San Diego. At peak of production, they gobbled up as much as 500,000 tons annually. In addition to the much-needed potash, they produced acetone and calcium acetate (both used in the production of smokeless gunpowder), iodine and a bleaching agent known as "Kelchar."

After the war, when new sources of these chemicals were found, the government disposed of the kelp-processing plants. But in the late 1920's, it was found that kelp was the source of two new and important classes of products. The boats started mowing the greenish-brown crop once again.

Today, something in the neighborhood of 60,000 tons of Giant Kelp are harvested each year to produce (1) supplemental food products for livestock and poultry, and (2) algin, a substance useful in the pharmaceutical, food, dairy, paper, rubber and textile industries.

The Philip R. Park Company of San Pedro dominates the livestock and poultry supplement field. It also turns out a dietary additive for human consumption. It was organized in 1927 by the late Philip R. Park, who had made a fortune in the chicken feed business.

Several years earlier, on a visit to England, Park was astonished to see cattle on the seacoast pass up rich pasturage to munch on dried seaweed. He took samples, had them analyzed and ran tests to determine the effect on animals. Seaweed proved to be rich in iodine and other minerals essential to growth. Park decided there was a commercial market for such a food supple-

(*Continued on Page 43*)

Adventure

Circuit of . . .

THE KEYS *and* BIMINI

By Lee Hersey

While the founder of New England Divers, James Cahill, was being crowned "Diver of the Year" by Cousteau in Boston, two of Jim's proteges, Ralph Raymond and Lee Hersey of Peabody and Beverly, Mass., respectively were having one fine time diving in the Gulf stream off the Florida Keys and the Bahama islands.

We started a month ago in Ralph's four passenger single engine plane, but ran into a snow storm a couple hundred miles from home, so we turned tail and beat it back to Beverly and unloaded all our gear. We made a vow that we would try it again about the first of March and this time we would go anyway.

Got ready to shove off and the weather report was terrible, so we went by car. It took us three days to go 1500 miles, doing a little sight seeing on the way—the official buildings and the Capitol in Washington, D.C. Couldn't put the top down until we got almost to Jacksonville. Drove on the beach race track at Daytona where the motorcycle races were starting in a few days, visited the Marina at Ft. Lauderdale and a friend, Arthur Van Dell who is captain of a fishing vessel there. He said the water visibility was poor at the Keys after the storms and we should take a plane to Bimini where you could see bottom in 125 feet of water.

We had made up our minds to dive in the Keys, so after a good night's sleep in Ft. Lauderdale, we started for Marathon. We drove around Miami Beach for a while on the way down and took quite a few pictures. That is a simply fabulous city and they sure do things in a big way.

We arrived in Marathon at the Seahorse Motel about the middle of the afternoon of the third day away from home.

Wes Bartelt, who has a very well equipped diving store, was out with a party of divers on his boat, so we made arrangements for the night and hired a two seater plane and flew up and down the Keys to see what they looked like from the air.

Next morning we were aboard Wes' boat. He can take five people with all their gear aboard and charges $10 per day per person. We went to Sombrero reef which is east of the Keys about four miles offshore. We were quite disappointed, because the deepest spot was only about twenty-five feet. Seems to get to any depth we would have to go miles and miles.

However, the water was about 70° and teeming with marine life. We wore our foam rubber suits, but mostly for protection from the fire coral and sea urchins. There were millions of them, black and about as big around as a grapefruit with their sharp spines undulating back and forth. First time we had seen any. There was one about every foot. Those spines will go through anything. Ralph got his foot down on one and five spines went right through his flipper into his instep. I got a half dozen in my hand through my glove while I was standing on my head pulling a crayfish out from under a coral shelf.

Three of the party were snorkeling and we did for awhile. Saw a shark sleeping on the bottom in about twenty feet of water. I asked Wes if we should spear him, so he said sure. He said both spear him at the same time near the head, so you can pull two ways on him. You can spear fish now outside of Marathon at the Keys.

Ralph didn't have a speargun, I had his and I got tired of waiting for another fellow to go down with me, so I went down and let him have it at a range of about three feet with the single rubber arbalete. The spear just bounced back from his tough hide and he swam away. I began to think afterwards that it is probably a good thing for me that he did take off, because what would I do with him if he took a dislike to me. He was all of eight feet long and no doubt more fish than I could handle. Some people do the craziest things.

Later when I had the double tanks on and was poking my head under reefs for crayfish, I looked to my right and there was another shark about three feet away just lying there on the bottom. I didn't stay there long, started backing water with both hands and flippers and the shark which wasn't even looking my way, just glided away. He was also about eight feet long and black. He may have been the same one I shot at before.

We collected some coral and I got five fair sized crayfish. Ralph and I took them over to Bob Martin's and we baked them in true New England style. I was disappointed in them though. They didn't hold a candle to our native lobsters. Bob Martin was one of the other divers on the boat and he and Mrs. Martin had rented a cottage. Bob runs a hardware store and sells diving equipment in Battle Creek, Michigan.

Wanting to cram as much into our one week vacation as possible, Ralph and I left the next morning for Ft. Lauderdale. We took a Mackey Airlines plane from there to Bimini in the Bahamas, British West Indies. It is only 55 miles from Florida and the round trip is only $15.50. Mr. Mackey owns quite a piece of property on South Bimini and has cut the cost of transportation to the bone as an inducement for people to go. Each person is allowed 66 pounds of luggage and it cost half of one percent of the fair per pound over the 66 pounds or about eight cents per pound. We took our single tanks, fins, masks, snorkels, and weights. There is no air or scuba supplies on Bimini, but the water is shallow for miles around and plenty can be done with a snorkel. We left everything which was not an absolute necessity in the trunk of the car and just stayed within the weight limit.

There are good facilities for eating and sleeping on the island. We stayed at the Sea Crest Hotel which is operated by Mrs. Edith Bishop. American plan costs $15 per day per person. The food was excellent, steak, chicken, crayfish, conch chowder and the works. Everything has to be brought in from the States, and England clips them 28 percent for everything. Even drinking water has to be brought from outside.

However, it was worth it. If we thought Florida was out of this world compared with back up north, the same comparison applies between Bimini and Florida. The island life is in a class by itself. Just a lazy, easy going type of existance. About 700 colored natives and about 50 whites I

would say. It certainly was a new world for us. It would take me a whole book to tell about it.

We rented a 16 foot skiff and a six horse power outboard from Don Abbot for $12 per day. He also has a sport fisherman for which he charges $70 a day and can accommodate two people fishing. Of course, Bimini is considered the sport fishing center of the world. We went out around the outside of the island and explored a bit looking for some good reefs. We got some conchs, they are the main economy of the islands. They are eaten in all forms from raw, chowder, fish cakes and otherwise. The fishing boats use them for bait. The shells are sold for souvenir and ornaments. We collected some sea fans, coral and specimens like sea anemones and snails for the aquarium at the gift shop which is connected with the hotel.

We only stayed for two days and the second day it was rough outside so we stayed around the harbor just swimming, exploring things and in general having one swell time.

Summing up the highlights, two fellows can make the trip comfortably on $200 apiece. It can be done in a week, but that is rushing it. It's like a new lease on life to get into that warm 70° water and that life giving sunshine. The Keys are very interesting and the Bahamas are beautiful and very different from our way of life.

We are going to hurry back the very next chance we get, but next time I hope it will be by plane. That long drive down and back really slays you.

They say the best months to go are May and June. ➤



THIS COULD BE YOU . . . landing at the Honolulu airport with the National Skin Diver Tour. The tour will spend five days of ultrafabulous diving in Kona on the Island of Hawaii and then they will visit Honolulu for two days. Tookie Evans will be the tour conductor. See page 17 for full details.

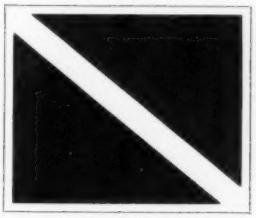
Members of the Bluefin Club of Eniwetok Atoll, Marshall Islands are looking for another so they can hold competition meets. Any comers? The club varies its activities between shell hunting and spearfishing.





An unidentified mermaid pops to the surface for a breath of air aboard her Hanco Sub-Glider. Sleds and gliders of all types are becoming more popular, this summer will see many divers using some type of machine to probe the depths.

BOAT OWNERS ATTENTION

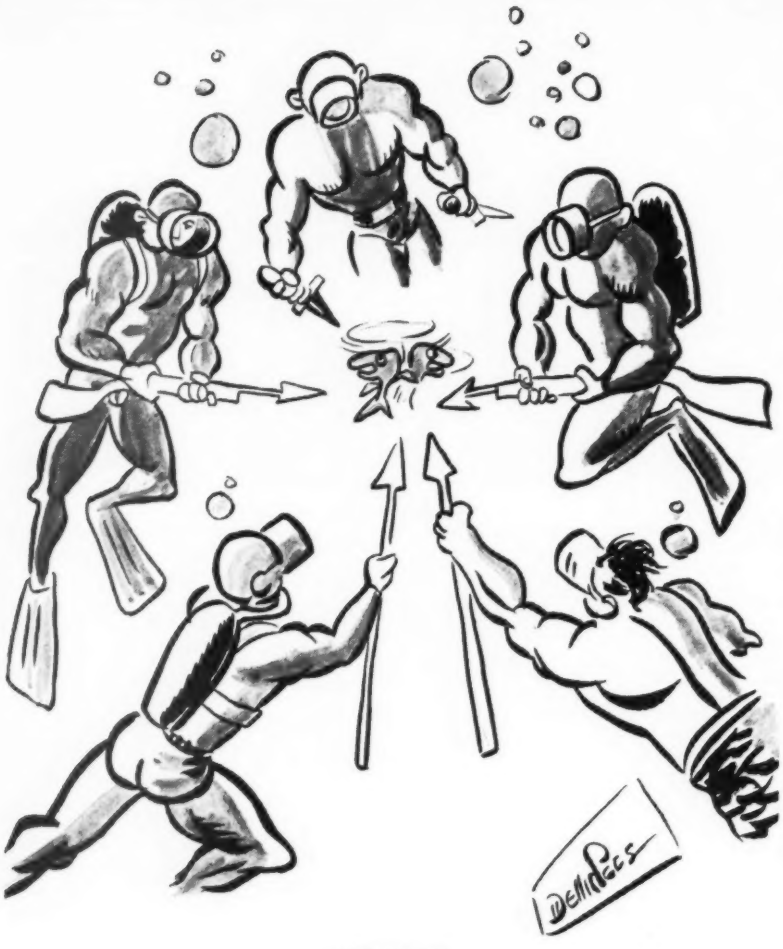


(DIVER'S FLAG)

IF YOU SEE THE ABOVE FLAG FLYING FROM A FLOATING OBJECT WHILE OUT BOATING, PLEASE DO NOT APPROACH. THIS FLAG SIGNIFIES THAT A SKINDIVER IS IN THE GENERAL AREA. DO NOT LET YOUR CURIOSITY TO INVESTIGATE RESULT IN YOUR "RUNNING OVER" A SURFACING "FROGMAN." IF YOU MUST PASS THROUGH THE DIVING AREA, DO SO AT A GREATLY REDUCED SPEED, BEING VERY CAREFUL TO KEEP A SHARP LOOKOUT TO AVOID FLOATING OBJECTS, OR PASSING THROUGH "AIR BUBBLES."

(Distributed as a public service in the best interests of the sport of skindiving, by the Bay State Aqua Club, 6 Minot St., Stoneham 80, Massachusetts.)

DIVERS FLAG brochure distributed by the Bay State Aqua Club. The club would like to encourage and recommend that other groups print a similar poster for distribution to the boating public.



"Gulp"

EDUCATION SAFETY UNITY CONSERVATION
EMPIRE STATE UNDERWATER COUNCIL

NEW YORK NEWS

By GENE PARKER

Johnson Road, RD #4, Scotia, New York

Aw, come on fellers,
send in some club news!

CONNECTICUT SPEAR-FISHING OPEN—AUGUST 17

The Connecticut Sea Devils and Underwater Sports, Inc., both of Hartford, have teamed up again to sponsor the Connecticut Spearfishing Open. Last year's Open drew over 60 contestants into the cold waters off Watch Hill, Rhode Island.

The 1958 Open will be held on Sunday, August 17 at a location to be announced in the July issue of SD. Entrance fees, location, starting time, etc., will be carried in Connecticut newspapers during July.

Residents of Connecticut only are eligible subject to the following: must be over 18 years of age; submit a written application including the entrance fee; sign a waiver; be approved by the sponsors. For further information write to the Connecticut Spearfishing Open, 1751 Park Street, Hartford, Connecticut.—Will Jacobs.

U.S.A. WOMEN'S OPEN INVITATIONAL—AUGUST 16

Kate Miller, Chairman, Women's Underwater Spearfishing Committee, reports that one women's team from the Southern Pacific Association, California, has announced its intention to attend the first U.S.A. Women's Open Invitational at the Grand Bahamas, August 16, 1958. Also that Mr. Harold Aycock telephoned her recently to report one team is entering from Florida for this event.

DIVERS FLAG OFFICIALLY RECOGNIZED IN MICHIGAN

Michigan is the first state to officially recognize the Divers Flag. The bill (House Bill #104) passed both the House of Representatives and the Senate the first part of April and was signed into law by Governor G. Mennen Williams during the last week of April. The bill reads:

"Any person diving or submerging in any waterway with the aid of a diving suit or other mechanical diving device may place a buoy in the water at or near the point of submergence. The buoy shall bear a red flag not less than 14 inches by 16 inches with a three and one half inch white stripe running from the upper left hand corner to the diagonal lower corner. The buoy shall be in place only while actual diving operations are in progress."

Although this does not give the diver any margin of safety it is the jumping off place for amendments to the bill next year in order to provide a specified margin of safety. —Ted B. Nixon.

WOMEN'S PACIFIC COAST CHAMPIONSHIP—JULY 27

All women divers interested in competition in the Pacific Coast Championship on July 27, please try to attend the very important meeting to be held at Kate Miller's, 3001 Stanford Avenue, Venice, California, on the tenth of June at 7 p.m. New rules for future competition will be discussed and it will concern us all.—Lillian Kemble.

SPAAAU AREA SPEAR-FISHING ELIMINATIONS—JUNE 29

This is it!! June has arrived and the first spearfishing competitions for the 1958 season are about to get underway. The SPAAAU eliminations are to be held Sunday, June 29.

Each club in the area should have a three man team selected and ready to go. If your club hasn't organized a team yet, it is not too late. Teams must register on the beach between 9:30 and 10:30 the day of the meet. The fee will be $9.00 per team, which includes each team member's 1958 AAU registration card.

The meet will be held at Salt Creek in South Laguna, California, between 12 noon and 4 p.m. Remember, the top 50% of the teams in this meet get to move on to the SPAAAU finals July 13.

There will be six trophies at the eliminations. They are all for individual performance. They will be for first, second and third individual aggregate and first, second and third largest fish. Good Luck.

Registrations for the 1958 competitive season are being taken by Chuck and Laura Sturgill, 340 Calle de Andalucia, Redondo Beach, California.—Dick Jappe.

SOUTHERN CALIFORNIA SKIN DIVERS STARFISH DERBY—JUNE 8

Here is your chance to join other divers and clubs in a conservation project to remove the harmful, over abundance of starfish from the Federal breakwater at Long Beach.

The Fathomiers Underwater Hunting and Diving Club of Los Angeles, in conjunction with the California Council of Diving Clubs and the S.P.A.A.U. has organized the Skin Divers Starfish Derby.

This project was carried out a few years ago with great success and we hope, with the cooperation of the skin diving clubs and individual divers, to have another successful starfish cleanup.

With the approval of the California Department of Fish and Game, the Fathomiers have undertaken the organization of this conservation project in the interest of promoting good will between divers and ocean fishermen.

These starfish are wiping out the beds of mussels and rock scallops which attract and provide food for fish which normally inhabit this area.

The Derby is to be held Sunday, June 8th from 9:30 A.M. til 2:30 P.M., assembling at Pierpoint Landing, Long Beach, at 8:30 A.M. Divers will be provided with transportation from Pierpoint to the breakwater and back in boats, free of charge.

No scuba or spearguns will be necessary during the Derby, but divers are requested to bring old tubes and extra sacks. Some extra tubes and sacks will be available at stations on the breakwater.

Bill Wright of Sunland Sports Lodge in Beverly Hills has generously donated a trophy to be awarded to the diver taking the largest starfish.

Any boat owners wishing to help with the transportation of divers or anyone wishing additional information, please call OLdfield 4-3621 Saturdays or evenings or write Howard Conrad, Pres. Fathomiers, 934 North Harper, Los Angeles 46, California.



By PAUL D. SCHMANSKA

125 Reservoir Rd.

Newington, Conn.

The AAU East Coast Spearfishing meet will be conducted by the Connecticut Council this summer. The affair is scheduled for July 27 at Wicopesset Island, an outpost of New York State, only a few miles off Stonington, Conn.

The Nutmeg State Council was selected by representatives of councils from New York State, Rhode Island, and the Northeast and Mid-Atlantic Councils, at a March meeting in Norwalk, Conn.

Representatives at the meeting included Roy and June Kieser and Graham Snediker of New York; Don Mann and Joseph Birkbeck of the Mid-Atlantic Council; Joe Mulholland of the Rhode Island Council; Richard Myers of the Northeast Council, plus Will Jacobs, Cliff Johnson, George Swindell and the writer, representing Connecticut.

Jack Shaughnessy, Connecticut AAU Spearfishing Committee Chairman, conducted the meeting. Mrs. Kieser acted as secretary.

State and area elimination meets to determine representative teams to the AAU competition will be conducted by the respective Councils and must be completed by July 13.

In Connecticut, only Council member clubs, and those unaffiliated clubs invited by the Council, are eligible to compete in the State eliminations on July 13, also at Wicopesset. To be eligible for AAU competition, a skin diving club must have at least five members and have been organized at least three months by June 28, the deadline for applications for the State eliminations.

The entry fee for the East Coast championship meet was set at $15.

Committee chairmen of the Connecticut Council appointed at our March meeting to work on the East Coast AAU meet, are Will Jacobs, trophies; Jack Shaughnessy, printing; Cliff Johnson, correspondence; Len Vendrillo, operations. The above-signed will handle publicity.

Two new Connecticut clubs have joined the Council. They are the New Haven Tritons and the Meriden Sea Lancers. This brings our membership to a total of seven clubs.

Joe Stalk, of the Hartford Sea Devils club, who had been treasurer of the Council since its start, was replaced during the winter by Don Sabo of Bridgeport's Cuda. Joe resigned regretfully under the pressure of business obligations.

Shaughnessy and Bill Bates, of the Norwalk Norskins, rewrote the Council's spearfishing rules for this season. With last year's experience to guide them, the two charter members of the Council produced a well-revised code which, with minor modifications, has been accepted by all the clubs.

Our Council individual meets will be held May 18, June 8, and on a still-to-be-selected date in August. We plan our team meet in September. Individual meets will be limited to a minimum of five men and a maximum of ten men from each club. The team meet will bring together five-man teams from the member clubs.

CENTRAL CALIFORNIA UW CHAMPIONSHIPS—JUNE 22

The Central California Skin Diving Championships will be held at beautiful Pacific Grove, on the Monterey Peninsula. The date will be June 22, 1958.

All recognized clubs in the Central California area are invited to compete in this A.A.U. sanctioned Spearfishing Championship.

Each club of the Central California Council of Diving Clubs will be competing for the honor of representing Central California in the Pacific Coast Championship in July 1958. All clubs who are not members of the Central California Diving Council should get in touch with Bob Moldivan, 1453 Revere Ave., Hayward, Calif. He will be glad to register their membership with the Council and outline the benefits that the Council offers organized divers.—Richard Selmi.

SPANISH PAINTER WORKS IN THE SILENT WORLD

By Antoni Ribera

Francisco Gusi del Rey, a Barcelonese of 42, has just celebrated a one-man show with twenty underwater oil landscapes, painted all along the Catalan Costa Brava of Spain. They depict underwater scenery with no fish in them; Gusi says that to paint underwater pictures with fish is too easy; he deals only with the transparence of the waters—in depths ranging from 6 to 90 feet from the surface. Before I gave him his first lessons of diving with Scuba, Gusi needed from 50 to 60 skin dives to paint each of his underwater pictures. He put the painting gear on the cliff and dived again and again, returning each time to the land to fix the rough sketch first, then the colors and water transparencies. Sometimes he was so tired after these repeated skin dives that he was scarcely able to walk home. And after diving, he sometimes had to climb rough and steep cliffs, loaded with his mask, flippers, snorkel, pictures and brushes!

The exhibition of his pictures held in Galerias Layetanas of Barcelona in December, 1957, was a complete success. In the month of March 1958 he made his first appearance abroad: a one-man show in Monte Carlo, sponsored by the Government of Monaco. The French press welcomed enthusiastically this unique painter. Now Gusi is working on equipment which could enable him to actually paint underwater. He made several tests with colors at different depths, and thinks the prospects are very promising.



Subsurface painter Francisco Gusi del Rey has recently completed his second show of his underwater art. Ribera Photo.



"Underwater Grotto" as seen by Francisco Gusi. Learning to use the lung enabled him to achieve the true effect of the transparency of water.

'BLACKOUT'

By J. H. Applegarth

Advisor to
Cal-Poly Skin Divers

In the winter of 1951 a skin diver lost his life while diving for abalone near Avila, California. According to his companion, they were using the cold water gear which is appropriate in ocean waters along the central California coast. All of a sudden the companion realized that his friend had not come up. Searching did not reveal him. Days later the missing skin diver washed ashore.

What had happened to this young man? Many questions were asked. Did the surge of waves knock him against the rocks and stun him? Had he had a heart attack? Since then, I have noted similar accounts of accidents in which an experienced and well-trained diver loses his life. These accidents have concerned me, as I am a skin diving club advisor.

I have gone over the accounts of various accidents that have occurred along our coast and elsewhere. I believe we have been neglecting an important point in our safety program. We are all normally able to hold our breath for short periods of time. We do so every day when we swallow, talk, sing, or whistle. When a person stops breathing deliberately, he feels the urge to breathe again. The mechanism which gives the urge to breathe is termed the autonomic nervous system. It can also be spoken of as the automatic system because it also helps to govern our heart beat and other involuntary body activities.

When a person deliberately holds his breath long enough so that the oxygen level in the blood is seriously lowered (anoxia), he is said to "lose consciousness" or "black out". The minute such a condition is established, the autonomic or involuntary nervous system immediately takes over from the voluntary and the breathing act is again resumed. Oxygen is restored to the blood and brain and consciousness returns. A person conditioned to holding his breath for long periods of time, such as is the case for most skin divers not using SCUBA, runs the risk of this condition. There is apparently little, if any, warning that unconsciousness is about to occur. Evidence suggests that an actual decrease in a person's mental alertness results when the brain is starved of oxygen; thus any symptoms of the impending danger may go by unnoticed. A similar condition also exists when a person breathes carbon monoxide in

lethal quantities. The unconscious skin diver, surrounded by water instead of air, has no chance of being automatically rescued by his other breathing control.

Within the last two months two situations have occurred that help to confirm this belief. A member of our skin diving club was being instructed in underwater swimming in our college pool. After the swimmer, with his face submerged, had made a couple of laps, the accompanying attendant noticed that the swimmer had practically stopped swimming. Only his hands seemed to be moving. The swimmer was pulled out unconscious. His muscles were rigid. Artificial respiration had to be applied to bring him around. Alone in the ocean he would have drowned. A few weeks later another young man practicing underwater swimming in a public pool not far from our campus also blacked out after several laps. He was also pulled out unconscious, rigid, and was revived by artificial respiration.

For the surface diver, it must be remembered that the submergence limit will vary from person to person and with the same person from time to time. Factors that cause these variations in different swimmers are physical fitness, fatigue, cold, etc. To be physically fit is to have a body that will do the same work as anybody else's except the work will be done more efficiently and less energy and oxygen will be consumed. Both fatigue and cold increase the body's demand for more oxygen. A normal human at rest requires about 250 c.c. or ½ pint of pure gaseous oxygen per minute. Strenuous exercise increases this demand by about 18 times. In addition to the oxygen deficiency hazard there is also evidence that carbon dioxide, which is a waste product of our living process and is exhaled from our lungs, may build up to toxic levels within our blood and other body tissues during long periods of submergence.

It would seem advisable that skin divers be made aware of the danger of remaining submerged too long. It is apparent that the diver's total endurance or black out time will vary from person to person. The old SCUBA rule "Take a buddy with you" is a partial answer to this problem. It may also be wise to shorten the length of your dives, particularly when you become cold and tired.

It is well to keep in mind that your judgment may be impaired when the danger point is neared. To the diver who wishes to dive again: re-evaluate your diving techniques. Be very cautious of those last dives when you should be packing up your equipment and heading for home. ➤



Winners of the San Diego Mid-Winter Championship . . . Robert Shea, Frank Linhaupel, Queen Louran Hurt and Al Larson.

ADDICTS CAPTURE FIRST PLACE IN SOUTHWEST BORDER SPEARFISHING MEET

By Harold Riley

The South West Pacific Border Association A.A.U. spearfishing meet for 1958 was held March 9th at Casa De Manana Cove, La Jolla. This may seem like an early date to clubs in most sections of the country, but not so in San Diego where a unique situation prevails. Our best spearfishing occurs in late summer when the water is clear and big fish are plentiful. For this reason our midsummer dive is held in late August. Our alternate annual dive is held in late winter or early spring, but it must be early to beat the season of the Red Tide at which time the fish just are not around. This latter dive is the one used to select teams to represent us in the Regional Championship.

Competition got underway at 8 a.m. under sunny skies. The water was unseasonably warm (60 degrees) and clear; ideal conditions for spearfishing. Twenty-four of San Diego's best underwater athletes surged forth to make this another great dive, but there were to be many anxious moments before this could approach becoming a reality. Contestants roamed the reefs and searched the kelp, but to no avail. Conditions were right but the fish just did not seem to be around.

After about two hours had gone by many of the first wave divers began returning to the beach. There were reports of sightings of elusive barracuda, too wary to be approached. Two reports came in of sightings of single Yellow Tail who also went south on the first approach of the divers. It looked like a complete shut out, no fish and not many stories.

At this stage of the game in our midsummer dive last August no less than 10 Yellow Tail and White Sea Bass in the 15 to 30 pound class had already been weighed in. Frank Linhaupel of the Addicts who swept that August dive with an 86 pound Black Bass, finishing his mid dive cup of coffee, donned swim gear again and set out to turn the tide. And turn it he did by bagging a 21 pound Sheepshead just outside the cove. This fish captured first place for the Addicts who wound up with a total take of 26 pounds 6 ounces. Other team members were Al Larson and Robert Shea.

Other divers were now working the reefs closer in after giving up their search for the big boys in deep water. The Delta Divers team composed of Bud Rogers, Tim Taggart and Vern Fleet secured second place with 16 pounds, 9 ounces.

Not to be outdone, Walt Maxted of the Penguins spearheaded a drive for his team that netted 6 pounds, 10 ounces of Cabazone and third place. Walt's buddies were Fred Campbell and Ronald Kallman.

We are proud to report that the Divers Flag was flown for the first time along San Diego shores in this contest.

Safety patrol service was provided by the City Aquatics Dept. and Carl Mohr of the Sea Dogs diving club.

At high noon the contest became history with the lowering of the official flag. Final weigh ins were made and trophies were presented by our very lovely queen Louran Hurt.

The Addicts have now won the big mid winter trophy twice in succession. Once more and it is theirs to keep. ➤

SCIENCE *for Divers*

By ED GUERNSEY, JR.

Have you ever wanted to bring home some of the plants or animals which you've seen when diving? Perhaps when looking over some biology specimens in your school laboratory you find that there are very few, and working together with your diving friends, you could collect, prepare and preserve some as an extra special biology project. However, in order that this can be accomplished, you'll need to know how.

The following list of specimens (aquatic) are commonly used in the biology or zoology classroom: freshwater sponges, leeches, crayfish, aquatic snails, clams, lampreys, fishes, aquatic reptiles, corals, starfish, sand dollars, sea cucumbers, and many others.

Specimens are classed as liquid or dry. The dry specimen is easiest to prepare. Several-infra-red lamps will speed the drying process. It should be remembered that partially dried specimens should not be stored in air-tight containers or mounted. Marine specimens after the drying period often retain unpleasant odors. To prevent this, soak specimens in a 70% alcohol or 10% formalin solution for 24 hours prior to drying. Remove, rinse in fresh-water, then allow to dry thoroughly. Insects destroy specimens such as starfish and sea urchins. Soak specimens in a saturated borax solution before drying, this will protect them.

Preserving crustaceans, crabs, crayfish, etc., is accomplished by soaking them for 24 hours in a solution (saturated) of borax and water. Joint membranes are opened to allow the solution to fully penetrate the body cavity. After soaking, rinse in fresh-water, and set to dry. Remember to set specimen in desired shape or position before it is dried. Dried specimens cannot be relocated.

Cork sheets are used to pin specimens for drying purposes. Borax treated specimens remain odorless and perfect for years. The specimen's natural color cannot be preserved, however a coat of varnish and oil paints help restore original beauty, and in the case of shells act as a preservative. Open sectional display cases or display jars are used to display dry specimens.

Liquid specimens, soft-bodied animals, etc., are best preserved and displayed in a liquid. Living specimens are killed and preserved in alcohol, formalin or a special formula. Formalin is technically 40% formaldehyde, yet the former is considered on the 100% basis. Denatured alcohol is impure and worthless; Rubbing alcohol can be used, but isn't considered good. Iso-propanel alcohol, anhydrous grade, has no disagreeable odors and mixes well with water. It is inexpensive and a good preservative.

Further information on this subject may be obtained by writing your specific questions to: SCIENCE FOR DIVERS, Skin Diver Magazine.

ADVENTURE WEST END

By ELLSWORTH BOYD

As the Mackey Airlines DC-3 raced its engines and the last call for flight 106 to West End echoed through the loudspeaker, Jim Kelly, Bud Wolfe, and I eased back into our sponge cushioned seats and fastened our safety belts. We were finally living a dream we had planned for two years—a spearfishing trip to West End, a small village on the tip of The Grand Bahama Island, British West Indies.

The plane left Ft. Lauderdale, Florida, at 10 a.m. and at 10:30 a.m. we were circling a tropical island, cooled by the warm trade winds and surrounded by the clearest water we had ever hoped to dive in!

We checked in at the island's only hotel, The Grand Bahama Club. Our room price was reasonable and plane trip was only $17.50 per person round trip.

Less than an hour after we landed, we were donning our fins, masks and snorkels to explore the inlet in front of the hotel. The inlet led to the ocean and we followed it to the mouth of the sea, remaining near the shore. There were plenty of 'cudas, rays, and small fish in the inlet plus many parts of wrecked ships—gears, anchors, chains, steel plates, etc. The bottom was sand and grass.

We swam to the mouth of the ocean and noticed that the reef began immediately, and we decided to return to it the next day in a boat.

The boat with a native guide was $25 per day—without a guide, $25 per day! It was just a small outboard. We had all our own gear. It is possible to camp out on the island if you can survive the mosquito onslaught.

The reefs were magnificently colored. They were teeming with fish. There were many ledges, coral heads, crevices, caves, etc.

In thirty feet of water, it seemed like we could stretch out our hands and touch bottom! In sixty feet of water, we felt suspended in mid-air.



Jim Kelley (hat and all) joins the fish in front of the Grand Bahama Club.



The West End of the Bahamas fascinated Ellsworth Boyd and he plans a return trip soon.

The water was unbelievably clear. The guide was helpful to us in locating the excellent fishing grounds, but he was not absolutely necessary. The shore line was always in sight. The depth of water on the virgin reef ranged from four feet to as deep as you wished to dive! The fish—snapper, grouper, jewfish, 'cuda, all overabundant.

Our largest was a 75-lb. jewfish. We were in a school of at least thirty 'cuda on our second day out. They were curious at first, but any quick movements on our part made them just as wary as we were. We saw a six foot nurse shark, many moray eels and a spotted leopard ray with a wing span of at least six feet.

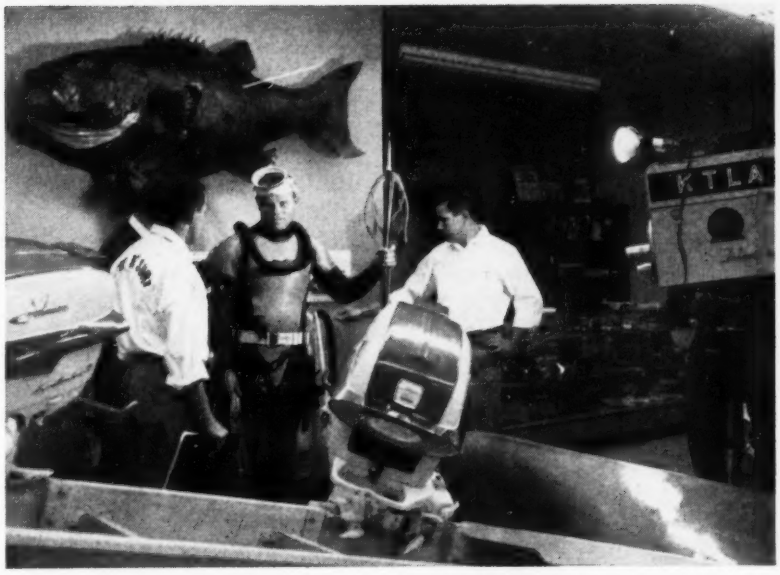
We stayed on the island three days and three nights. It was a memorable adventure and one we expect to relive again soon.

RED DRUM SPEARED OFF NEW JERSEY COAST

By HOWARD ROWLAND

As chief of the Belmar Beach Life Guards in Belmar, New Jersey, I was patrolling the shore line of the Atlantic Ocean this past August, not more than 300 yards off the coast, when I saw a fellow skin diver and spearfisherman, Warren Ross from Upper Montclair and Belmar, New Jersey, piloting his sea skiff closeby. Warren was one of the founders along with myself and Stanley Meltzoff of the first skin diving club in the State of New Jersey (The Underwater Spearfishermen of New Jersey). I waved to him and he informed me that he thought it was one of those rare times when large red drum were schooling off the coast. The last time drum fish were seen on the Jersey coast was in September, 1952 and naturally we anticipated an exciting hunt.

Warren anchored his boat and, armed with a hand pole, quickly dived beneath the surface. He dived repeatedly (he does not use Scuba while hunting) and in less than ten minutes came up with a 66-lb red drum whose brilliant colors flashed copper and silver in the sun's rays. He then went into the fight with a rubber propelled gun and within a period of less than two hours speared three red drum, the largest one weighing 86 pounds, which I believe is a world's record.



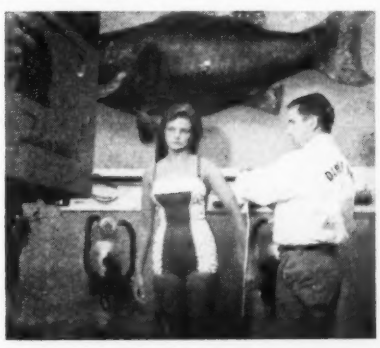
Warren recently made the comment that he was extremely pleased to see that the National AAU Spearfishing Championship will be held at West End, Grand Bahama, Bahamas. Last year he had the privilege of going there for several weeks and he states that it is probably the finest spearfishing area in the world, abundant in all types of fish. He speared amberjack, barracuda and various assorted fish while there. Warren cautions that the area is infested with giant barracuda traveling in large groups plus many voracious sharks, and advises using the "Buddy" system or having a gun guard in constant attendance.



Warren Ross displays the huge 86 pound Red Drum he speared last year off Belmar, New Jersey. August is coming up again, will Ross repeat?

TELEVISION VISITS DIVE N' SURF

Ralph Hodges, M. C. for MASTER CONTROL (KTLA) seen each Thursday from 8 to 9 P. M. in Southern California visited the new Dive N' Surf facilities in Redondo Beach. The TV camera wheeled in the front door past outboard boats and motors to the skin diving section where a quick synopsis of diving gear and its operation was covered. Bob and Bill Meistrell, owners of the newly relocated shop, covered the equipment worn by Bob Kulek in haste to be sure of enough time to measure pretty Linda Atkins, for an exposure suit. The camera moved on to the rear of the building where outboards are repaired, foam neoprene suits manufactured, storage and compressor room to see two Rix compressors pumping away. M. C. Hodges, then interviewed Roger Hess, at pool side in the same building, during a regular class instruction period. Several students demonstrated to the camera, underwater ditch and recovery of Scuba gear. By evidence of the percentage of young pretty women students in the class, there should be a large influx of single males into the briny this summer.



DRIFTWOOD



. . . Summer hath arrived in a symphony of splashery as Diverdom plunges into the warming waters everywhere. Whether it be placid lake or serene lagoon, murmuring river or tumbling surf—I hope you are having a marvelous time. The mail is rather delightful this time: You have a go at it while I busy myself, frying the filets and making the coffee . . .

If you're ever in this area for a weekend, give us a call. We put a new cruiser in the drink, May 1st, and you're welcome to hop aboard. We usually go to Cape Cod or Block Island: they both have a tendency to have a bad influence on divers. You know—wine, women and song. Bring your regulator and give us a call.

GENE LITTLE
11 Julius Street
Hartford, Connecticut

I can't sing, Gene, but . . .

I really dig your crazy *Driftwood*. I'm twelve years old and just got interested in diving. I've exhausted my supply of books on diving and would appreciate information about new books on the subject.

DON GRUBB
1222 Cahill
Turlock, California

Bought your copy of Gilpatric's "Compleat Goggler" yet, kiddo?

About this letter from this Murray character: I agree the teenagers are getting a lot of publicity, but if he would take note, it's always about the bad things teenagers do—seldom the good things they accomplish. All of the teenagers are being judged by what a small percentage of them do. I think some of this publicity should be focused upon the good teenage actions as well as the bad. I would also like to mention a new diving shop in the Washington area: The Aqua Shop, 703 Clark Road, Moses Lake, Washington.

BILL NELSON
Ephrata, Washington

Take that finger out of my face: I agree with you.

Our group has been quite interested in this trouble you've been having regarding the teenagers in skin diving. In our club of thirty members (ages 17 to 52), we have two 17-year-old teenagers. Both came into the club when they were 15. At the age of 16 they had been down to 150-feet during a trip into Mexican waters and one of them holds the club record for the deepest snorkel-dive. Let's give credit to whom it belongs — male or female, 16 or 60. Let's not condemn the many good with the few bad. Remember, in unity there is strength.

DON KNUDSEN
Vikings
1025 Pine Street
Martinez, California

I would applaud that last statement if I didn't remember an old quotation: "Applause is the echo of platitudes."

I love the boys, I love to dive,
I do the things an earthy girl should;
I love the joys, I try to thrive,
Aided and abetted by old *Driftwood*.

DEENA ELLEN JONES
San Francisco, California

All at the same time, honey?

Man, what dictionary do you use? How can you think up those frantic answers?

KEVIN HAWRENSON
17 Charles Street
New York City, N. Y.

Oh, I just mentally bug out to Crazyland and all like that.

After reading the letter from that Big Shot, in Houston, Texas, I'm stirred to sending in a protest. While he is sitting at home in a rocking chair, guys like me will be exploring space and skin diving, too. If *Vanguard* ever falls on his head, I hope its aerials have triple-barbs.

JIM WILLS
1804 North 4th Street
Grand Forks, North Dakota

You're a pleasant creep, aren't you.

SPECIAL NOTICE: A couple of very beautiful, very special little dolls who happen to be honorary nieces of mine would like to have letters from boys of their own age. Interested TEENAGE divers can write to: CHRISTABEL SCHEFFY, P. O. Box 518, Fallbrook, California and/or to JOAN TUPPER, P. O. Box 607, Fallbrook, California. *And be gentlemanly when you do, men, or you're deader than a juvy at a fuzz rally.*

Hey, Uncle Relhok, I think your column is the greatest gift us long-suffering gals have ever had! If there's anybody I adore, it's a man loaded with wit and the courage to be himself no matter how small the minds around him fit! I do wish I could figure out exactly how you *do* stand on the question of Women Divers. I'm 29-years-old, brunette, 36/24/35 and no bigger than a minute. I'd send my photo, but my boyfriend is quite jealous and said I could only write to you if I didn't sign my address or enclose a picture. Go ahead—coax me a little! I coax real easy!

CATHERINE GRIMES
San Diego, California

No wonder that boyfriend is a nervous case.

The picture of Miss Carol Boyko, of Ontario, Canada, caught my eye and much later (it really caught my eye!) I read what she wrote you. May I state that I am 21-years-old, five-eight in height, weigh 145-pounds, 39/28/35, have brown hair and eyes. I am Captain of Life Guards at both T. Roosevelt and Beekman beaches. Anybody in this area who would like to start a club or throw a beach party—drop me a card. What I want to know is simply this: How *big* is Miss Boyko's *boyfriend?*

JAMES A. ZARIFIS
14 Hamilton Avenue
Oyster Bay, Long Island, N. Y.

Probably big enough, Captain. Say . . . why don't you scamper over to Schenectady and cast a vote (among other things) at that Y.M.C.A. Dive Club *thingie they're building around lovely little Sherry Parker.*

If you could be as good as any partiuclar diver of whom you know—who would you choose?

TED KONDOLL
Belmont Shore, California

Gordon Voelker, staff diver at Marineland Of The Pacific *and a truly skilled skin diver in his own right.*



In the March *Driftwood* you stated there were three, very gorgeous girls who liked skin diving and only wished they knew a guy who would take them diving. I'd like to see you back this up by sending me the address of one! I've been diving for three years and haven't had a gorgeous "Buddy" yet. Maybe I should move to Florida, huh?

JERRY McGUIRE (20)
43545 6th Street, East
Lancaster, California

Maybe you should learn a new approach, maybe.



The members of the Schenectady Y.M.C.A. Skin Diving Club have endorsed Miss Sherry Parker as our "Miss Schenectady Skin Diver of 1958." However, in deference to your reputation as "the expert" on submersible sex appeal, we are submitting Sherry's photograph for your consideration. How about it, Frogface, do you think Sherry has all the necessary qualifications for the job? May we declare her unanimously elected?

LOU KLAGES
Secretary
Schenectady Y.M.C.A. S.D.C.
Schenectady, New York

I don't suppose I could interest you in sending Sherry out to California so we could elect her Miss Driftwood *of . . . well, anyway, you had BETTER make it unanimous, Lou. Very lovely little girl. If this is a current trend in Y.M.C.A. club activities, I think I'll renew my local membership.*

I have a real problem. I'm fifteen years old and a good strong swimmer. We have a swimming pool and I practice skin diving techniques everytime I get in the pool—yet my mother says I can't go skin diving in the ocean. I've tried convincing her it's not as dangerous as she thinks. No deal. I buy and read diving safety books and everything, and I still cannot convince her. I have even taken skin diving classes. What shall I do?

DAVE SCHWARTZ
9085 Woolley Street
Temple City, California

Vey's meir, what a situation. I cannot rightfully offer you direct advice, Dave, but I can voice an opinion: If I had a 15-year-old son who was intelligent enough to attend authorized diving classes, read authorized books on safety and had contented himself with practicing his diving in a pool, I would back him to the hilt in finding a well organized club whose adult members would accept my son as a Junior Member. But, frankly 15-year-olds have no business diving by themselves in the ocean. Tell mama Uncle relhok said so.

Since you have started all this stuff about pictures, I've decided to send you one of a real baby. Name, Connie Martin. 28-inches tall, weighs in at 32-pounds and her measurements are 17-18-19. She has been very good about staying out of diving . . . so far. She stays on the beach (where women belong) hunting for agates and throwing rocks into the water. She's hep to diving and knows all the facts regarding the legal limit on Manta Ray, etc. I would like to hear from anyone who has dived in really cold water while wearing a wet suit, and who might be able to tell me if a dry suit is absolutely necessary. I would like to believe a wet suit will keep me plenty warm enough.



RICK WETZEL
246 Taylor Avenue
Glen Ellyn, Illinois

My youngest son, Matt, took one look at this gorgeous little creature and informed me that he intends to give up diving and haunt the beaches, theoretically for agates, I assume.

I stand five-three, have black hair and brown eyes and have no family. I love to write and receive letters and I hope *Driftwooders* —especially the good looking fellows—will drop me a line and ease my loneliness a little.

JESSIE GARDINER
c/o Kitchen
Oakbank Hospital
Possil Road
Glasgow, North
Scotland

They'll write, honey, they'll write.

I like your column, but I must say you have some of the most dislikable people write to you. I don't dislike any of my fellow skin divers, but some of these people—like that guy in Houston, Texas, and that girl in the last issue—I hate with all my heart. Anyone who is truly interested in diving is not going to deny any of his or her fellow human beings the same privilege. I'm 16 and have been diving for three years; and I'm proud to say the man who taught me diving has been accepted by the U. S. Navy in the UDT. I think anybody who writes to this column is crazy, but I just wanted to say that these people who have been knocking young divers should write to their congressman and have a bill passed to lock up all teenagers in a schoolroom, and only let them out when they're 21-year-old. That's a load off my mind.

TED GRISELL
5411 Broadway
Indianapolis 20, Indiana

Careful, kiddo—they might just do it.

Any day now, I'm coming home to California again. When I do, I'd like to have a couple of mature girlfriends with whom to walk the beach, dive, discuss philosophy and help make life a living thing. I'm a big guy, artistically inclined and have the sparkling advantages of being able to create original hair-styles (I'm a graduate cosmotologist now) plus relate the Real Story Behind Uncle Relhok, being a guy who knew him when he was unable to wade past the surf. All truly intelligent girls will write instantly to:

JIM WILLIAMS
1374 East 44th Street
Tulsa, Oklahoma

Jeezely, now that cat is going for female intellectuals.



This is not just a man's world, girls. Here is an opportunity to show our skill along with the men at the Grand Bahama Islands! See that your Association sends a team (2 girls) to represent your area at the *Grand Bahama U. S. A. Women's Open Invitational—August 16, 1958.* In case you haven't heard, this is an A.A.U. sanctioned underwater spearfishing event.

ALBERTA GRUSD
8276 Woodshill Trail
Hollywood 46, Calif.

Not a man's world, Alberta? Oh, ho, you lovely little dreamer!

I'm 22-years-old and would love to hear from any Driftwooders who might care to drop me a few lines. Especially those who enjoy science-fiction and music.

FLORENCE E. WALTERS
7 Bow Street
Taunton, Massachusetts

All right, men—grab pens . . .

. . . and how did you like those letters, eh? It only goes to prove, quite conclusively, that the smartest, best, beautiful, most personable people are to be found—snapping, snarling and cooing—around this tidal pool, from sunset to sundown. It makes no difference who *you are,* what *you are or even* why *you are—stop lurking shyly behind that breakwater wall and swim over here so we can be fond of you, too. In fact, bring friends with you. Until you do, then . . .*

uncle relhok and his psychotherapeutic sled





Miami, Fla.—Jacques Mayol and Austin Huhn prepare "Old Abe", a 500-lb. jewfish, for a tumor operation. The center of the tumor was a three pound diver's weight.

Jerry Dennis of the Reefcombers subdues a pompano off Tangelle, Southern Ceylon. The pompano is one of the hardest fighting game fish, pound for pound, in the Indian Ocean. This is another of the outstanding photographs that will appear in the Harpers underwater photographic book, "Boy Beneath the Sea". By Mike Wilson for Clarke-Wilson Expeditions.

UNDERWATER A



New Zealand — 3,186 pound sunfish landed by Rex Collings. After the creature was speared it was pulled by boat to the shallows where the tide left it high and dry. Photo by Hugh G. Kendal.



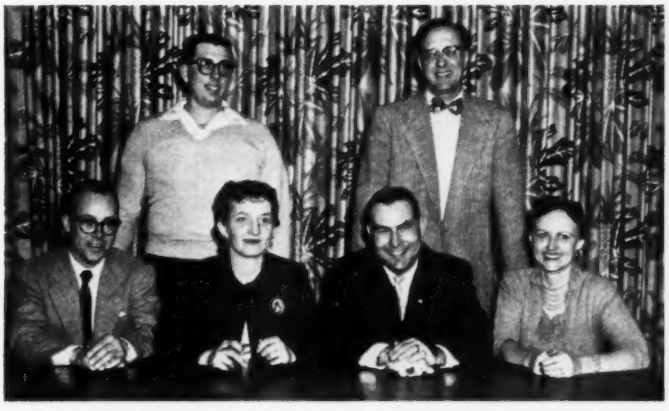
Los Angeles, Calif.—Diving is one hobby that won't leave Paul McComack. The figure on top is Paul at a recent exhibition of Comic Diving for the Ambassador Pool. He is also an accomplished Fancy Diver with several AAU ribbons and medals, an expert Skin Diver (made the SD cover in 1952 with an enormous white sea bass) and, just to keep him busy, his regular job is that of Manager for the giant Lynwood, Calif. Natatorium. If that isn't enough . . . he is also a Los Angeles County Certified Skin and Scuba Instructor. Paul's hobby-hobby . . . photography and dogs.

Southern California—A practice dive on March 1 for the coming Women's Spearfishing Championship events featured gal divers and boy companions (l-r) Pauline Rolland, Mr. and Mrs. Lundgren, Clark Shaw, Peggy Strauch, Bob Weaver (how did he get in there?), Ellen Rogers, Alberta Grusd and Lillian Kemble.



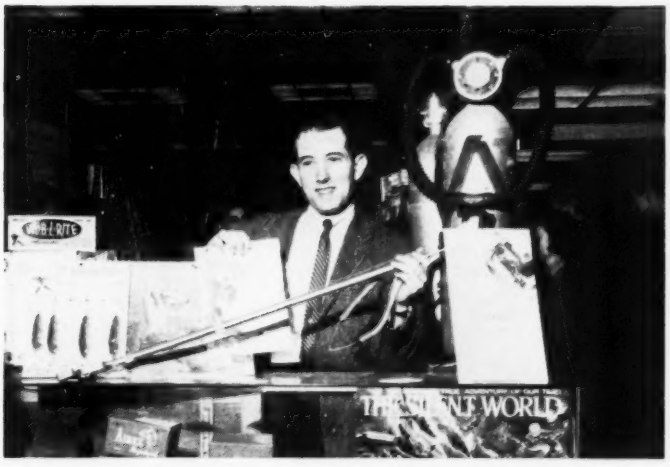


Vancouver, Canada—Len Erlendson waits for the boat to take him and partner John Humphrey to the famous Ripple Rock for a pre-blast dive. Photographs were taken for Life Magazine during the dive.



Michigan—New officers of the Michigan Skin Diving Council are (seated) Donald Brackenbury, Jean White, Truman Schrag, Betty White and (standing) Fred Duffy and Dick Metzler. Not shown is director Carl Forslund. The Council is now in its third year of operation and is composed of 26 clubs with 700 members. Their latest project has been promoting new legislation for official recognition of the Divers Flag.

ALBUM

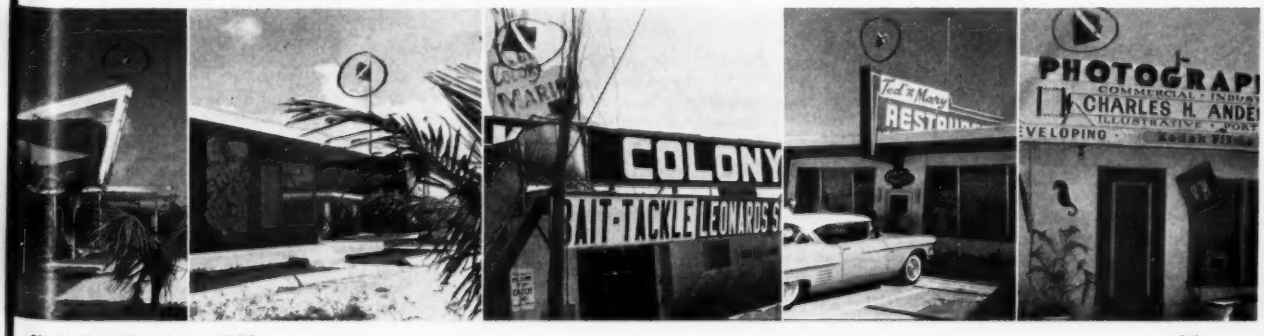


New York Coliseum—Harvey Leonard of Harvey's Sporting Goods greeted thousands of people at the recent Outdoor Exposition. Harvey reports that over 8000 registered for his catalog.



Toronto, Canada—Members of the Underwater Club of Canada took their first dive on March 16 at Port Credit, Lake Ontario. The water was 35° warm. One purpose of the dive was to test different exposure suits and mittens.

Marathon, Florida—Look for the official Divers Flag when spearfishing in the heart of the Florida Keys. Contrary to rumor, spearfishing is still legal in the Marathon area of the Keys and the merchants throw out the welcome mat by flying the Divers Flag. Pictured below (l-r) Seahorse Motel, Skin Divers Headquarters, Colony Skiff Rentals, Ted n' Mary Restaurant, and Charles H. Anderson Photographer, credited with these pictures.

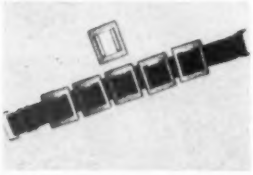


NEW PRODUCTS



DIVERS FLAG
Means: Caution, Diver Down.

DIVERS FLAG—With red field and diagonal white stripe is the warning and caution to boatmen and others who may endanger the life of a diver. Made especially for the skin diver of rugged, durable, colorfast material. Priced from $4.00 for large size, to 75c for Auto antenna size. Write for additional information to: June Sportswear Co., 947 61 St., Brooklyn, N.Y.



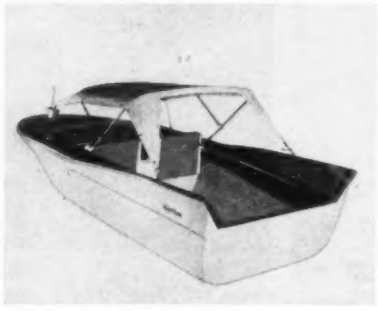
UNDERWATER WEIGHT BELT—featuring the Mar-Mac quick release buckle, two inch webbing that is approved by the U.S. Government, mildew resistant, vat dyed. The weights are made of 90% lead 10% antimony for added wear. Price belt with buckle $2.95. 2 lb. weight $1.95. Special prices quoted to jobbers, dealers and clubs. Mfd. and Distributed by: AQUAQUIP, 2944 Brighton 5th St. Bklyn. 35, N.Y. "Skin diving is our business"



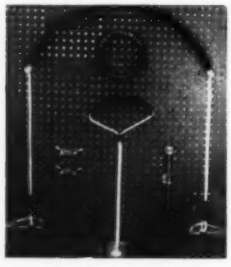
VOIT'S NEW "SEA HUNT"—swimming accessory line, which includes fins, masks, kits, and plastic inflatables. Products are licensed from the popular, exciting new weekly TV show starring Lloyd Bridges, which is currently showing in over 180 markets.



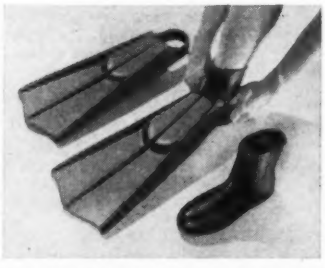
THE EUREKAN—A product of Bayleysuit is made from 3/16″ foam neoprene material and features an extra wide zipper backing for a better seal and underarm & crotch gussets that eliminate binding and yet allows a close fit. Price of suit shown with zippers, hood and socks: $55.00 from: Bayleysuit, 2408 Meadow Lane, Eureka, California.



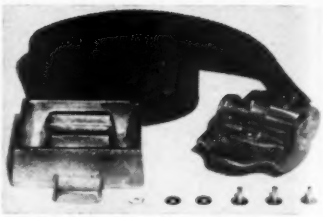
THE MYCO VOYAGER, with spacious rear deck area makes an ideal boat for the skin diver. There is plenty of space for equipment in the ten foot cockpit. In addition, the carefully designed and molded fiber glass assures a dependable, fast, seaworthy craft. For full information on the Myco Voyager, and the name of your nearest dealer write: Myco Marine, 705 E. Pleasant St., Dept. SD, Belvidere, Ill.



ACCESSORIES FOR PLEXIGLASS CASES—Easy to install nylon and neoprene neck strap, also wrist strap. Optically perfect hermetically sealed glass lens port. Double "O" ring control gland and sealed flash contacts. Write for additional information and prices to: Wiener Precision Laboratories, 268 W. Fordham Rd., New York 68, N. Y.



SWIMASTER ANNOUNCES NEW "FLIPPER SLIPPERS"—The original foam vinyl construction of Flipper Slippers is the result of a specially developed material that combines comfort with exceptional durability. Flipper Slippers, when used with any style or type of fins serve to prevent blisters, soreness, abrasions and foot cramps caused by extensive use of fins. Six sizes are available packed in Swimaster's "Visu-pacs" at $4.95 per pair list. For further information and catalog sheets on the entire Swimaster line of diving gear write: Swimaster, 905 East 59th Street, Los Angeles 1, California.



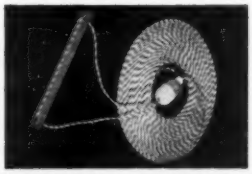
FENJOHN BELT-YOUR-SELF KIT—Includes: Special two pound mold, 2″ web belt, safety buckles and rivets. Simple and economical—just melt scrap lead in an old frying pan and pour as many weights as desired. Ideal for clubs, etc. Extra webbing, buckles and rivets can be ordered separately. Price for Kit—$11.95 from: The Fenjohn Co., Ardmore, Pa.



BACK PAK—The ultimate in comfort, prevents rolling and sliding of tank. Easily adjusted, special tank buckles permit removal of tank in 20 seconds. No annoying crotch or chest straps required. Made of high-grade aluminum with nylon webbing. Price—$17.95 from: The Fenjohn Co., Ardmore, Pa.



NEW REBIKOFF HOUSING FOR EUMIG 8mm MOVIE CAMERA—With this camera and housing it is possible to produce underwater results of professional quality. Thanks to the built-in electric motor all spring prewinding is eliminated. The housing is made of highly polished stainless aluminum alloy which makes "fogging" impossible. Tested at 400′ depth. Easily operated with one hand, requires only adjustment of diaphragm. Price $295.00 from: Alfa American Corp., 303 W. 42nd St., New York 36, N.Y.



WATER SKI TOW ROPES RELEASE—Water skiers will recognize "on sight" that Pennsylvania Athletic Products' new polyethylene tow ropes are among the finest water ski accessories "afloat." Available in both single and double handle styles, these blue and yellow, 3-strand, 75-foot ropes take terrific punishment, are easier to see in the water, flexible and light to handle. Complete with 5″ yellow and blue float, these colorful, well designed, and immensely strong tow ropes are an outstanding addition to Pennsylvania's growing line of water ski accessories.

SKETCHING THE BRINY DEEP

(Continued from Page 21)

paper. Water may also force itself into the fibers of the paper, sometimes giving the drawing a washed-out effect. To prevent this, spray the surface of your paper stock with demar varnish and let dry thoroughly. Then, to help the sheet stand up better, spray or brush the back side with spar varnish. There are silicon base products which also can be used.

I have been asked what part of art school training has been useful to me in underwater drawing. Besides composition and perspective, I think the croquis drawing in life class has been the most useful. Here a model poses for ten seconds to maybe a minute. In this time you try to grasp the essential lines, movement, light and shade and put this into your drawing. After a while, the model poses for a few seconds and you draw from memory. It was a wonderful discipline to me then, and stands me in good stead for my underwater efforts—especially when I'm trying to capture a school of fish or the swaying of seaweed.

In planning underwater trips, I try to keep equipment down to essentials. Sometimes when going to an inaccessible quarry or beach, I find that with a load of diving gear, drawing board, camera and housing, it seems as if I am carrying too much stuff, particularly when I am going over a long stretch of Sahara-like sand. I often get the feeling that to make it complete, all I need is a rifle and water bottle, and I sometimes imagine I see vultures circling overhead. At times you wonder if it's worth it. . . .

Once I was crossing what seemed to be hundreds of miles of sand, and a string of crayons had fallen out of the bag and was dragging behind me like a tail. Some urchins started to follow me out of morbid curiosity, making comments on my sanity and intelligence. These are just some of the peculiarities of the trade you have to put up with.

Sunken wrecks are fascinating subjects to draw, but they can be treacherous. Most of the shallow water wrecks in my locality, along the New Jersey and Delaware coast, that did not have 30 feet of water over the top of them have been flattened by Army engineers. So when diving into one of these submerged junk yards, it requires caution just to look around and considerably more when settling down to draw.

These wrecks can be absorbing from an artistic viewpoint as you watch rock bass and other forms of fish slowly swimming through torn and twisted machinery. It is ironic that this interesting picture is the end product of death and destruction on one of the north or south-bound convoys during the war. Some of these ships were torpedoed in relatively shallow water as the convoys ran rather close to shore. If visibility is poor and the current strong, just forget about trying to make a sketch. Usually under these conditions, it's hard enough to explore or go spearfishing, let alone trying to draw. I have found it is wise policy to contact a local fisherman who knows the area you want to explore, as he probably knows every hump and bump and piece of wreckage on the bottom. He has lost enough lobster and fishing pots!

When arranging with a group to go diving, someone is sure to know where



there is a sunken U-boat (usually in a spot about fifty feet deep). This U-boat later turns out to be an old boiler. It seems that U-boats nowadays are close contenders with sunken treasure. But not to sell the local fisherman short, if he knows the area well, he will take you to a spot where there is *something at least*, the fathom meter says so. He may seem amused by the antics of skin divers, but if he sees you going in with a drawing board, then he will really get a charge. But they are just as curious as you are to know what's on the bottom, as in the case of a particular wreck which stood fourteen feet high off the bottom, known locally as the lumber wreck. When we got to it, it turned out to be a pile of square chunks of granite, about twelve feet long. From the jumble of rocks it seemed that when the boat or barge went down, it must have hit the bottom with a bang. And when moving away from it, it looked like a cubistic nightmare—a stone monument to tragedy. It probably was not a well known or popular wreck at least by the beer can census.

Sometimes it's nice if you can get to see a copy of the wartime wreck list as it gives the location of over 1000 ships, their names, types of tonnage and nationality along the American coastlines. However, it seems as if it were hastily compiled for some of the locations given are inaccurate. A revised mimeographed sheet with additions and corrections was issued in 1946 to correct the 1945 listings. It's nice to look at such a list if you exhibit or sell your work, as some people always like to know the name of the ship and its origin; it seems to make it a bit more romantic to some people.

Exhibiting your underwater work can be a bit frustrating. You'll find that people compare your drawings to something done in a studio. And they just can't compare! These same viewers haven't the remotest idea of the difficulties you encountered just to get near your subject matter. On the other hand, you'll find connoisseurs who'll invariably ask: "How deep were you when you painted this?" It seems that the deeper you go, the more you are risking your neck for art thus, the drawing's value is enhanced.

Actually, most of my better work has been done in fifteen or twenty feet of water. There is often just as much alluring material at four or five feet as at forty or fifty feet. The deeper you go, the more light and color you lose.

I have just returned from a week's stay in Puerto Rico where I was able to do over 40 underwater paintings in San Juan's shallow waters. This trip has proved to me that with fairly good diving conditions, I am able to get some unusual and colorful material. Shallow water is ideal for art work, as off shore it is rather rough. The current is strong and has a tendency to slam you against coral and volcanic rocks, or have you land on a sea urchin which abound plentifully in Purto Rican waters.

As I see it, there are three ways to approach underwater drawing: you can be very scientific and exacting in detail; or make an interesting illustration-type drawing by rearranging the scenery and adding things that are not there; or you can go impressionistic and let your imagination run rampant. Sometimes I end up doing all three. When first starting out in the water, while I'm still warm and comfortable, I may try to be photographic in detail; but as I get colder and more tired, I rapidly progress through the other methods.

But whatever your "technique," your own flush of achievement is likely to be your total reward. You may point with some pride to one of your more creative masterpieces and find that your friends think it's "patchy," "weird," or "incomprehensible." Your only recourse, while you're happily recalling the wonderful memories associated with this drawing, is to comment absent-mindedly: "Oh. yes, the mud was rather churned up that day."

The point is, you had a good time, didn't you? At least I did.

Underwater Club Roster

Copyright 1958, Skin Diver Magazine

Soon after the giant Underwater Club Roster was published in the May 1958 issue of Skin Diver Magazine we received the following names and addresses of underwater clubs and organiaztions. Many of these club names were generously furnished to us by Roger Foucher-Creteau, editor-in-chief of "L'Eau et la Vie Sous-Marine", of France, one of the leading underwater publications in Europe.

ARIZONA

Sand Dabs
c/o Sports Spot
4226 E. Indian School Road
Phoenix, Arizona

CALIFORNIA

Diving Devils
2008 Chevy Chase Drive
Glendale, California

Telefins
Harold Riley
5579 Hamill Avenue
San Diego 20, California

Finatics Skin Diving Club
c/o H. Lee Blackwell
6067 A & E Squadron
APO 328, San Francisco, California

Northern California Skin Divers
c/o Dale Orr
1058 Calaveras Way
Vallejo, California

Underwater Photographers Society of Southern California
1147 Montecito Drive
Los Angeles 31, California

NEW MEXICO

Southwestern Divers Club
Bruce Greengross
Dexter (Orchard Park)
New Mexico

ILLINOIS

Blue Intruders
c/o Roger Griffith
310 Bryant Avenue
Glen Ellyn, Illinois

MASSACHUSETTS

New Bedford Scuba Club
Andrey Konovalchit
460 Arnold Street
New Bedford, Massachusetts

NEW YORK

Trigger Fish
Edmund H. Fox
314 36th Street
Brooklyn, New York

West Side YMCA Sub-Aquatic Clubs
Robert E. Braine
Box 1177 — 5 West 63 Street
New York 23, New York

West Side Squids, Inc.
Fred Wicht, Jr.
Box 1177 — 5 West 63 Street
New York 23, New York

Westchester Waterbugs
William C. Agostinelli
443 Second Avenue
Pelham, New York

Turkish Turtles
Max Gabay
128 Beach 93 Street
Rockaway Beach, L.I., New York

NORTH CAROLINA

Lookout Seahorses
2011 Bridges Street
Morehead City, No. Carolina

OHIO

Cleveland Skin Divers
c/o The Cleveland Aquarium
Gordon Park
Cleveland, Ohio

TEXAS

Brazosport Underwater Club
Robert D. Smith
P. O. Box 2127
Freeport, Texas

WISCONSIN

Fox Valley Skin Divers Club
P.O. Box 247
Kaukauna, Wisconsin

ALGERIA

Club des Chasseurs Sous-Marins d'Alger
Palais d'Hiver
Place Cardinal Lavigerie
Alger, Algeria

Club de Chasse Sous-Marine d'Alger
1, rue Robert Estoubon
Alger, Algeria

Harpon Club Sous-Marin Philippevillois
6, rue de l'Armée d'Orient
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Rue de Docteur Trabut
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Maison de l'Agriculture
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Island of Nossi Be
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Centre Suisse de Sports Sous-Marins
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Cremieuxville—Immeuble Balkis
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Tunis—Tunesia

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ul. Mickiewicza 32 m. 3
Poznan, Poland

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France

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Marseille (Bouches de Rhone)
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Marseille (Bouches du Rhone)
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Hyeres (Var), France

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Batiment 14 H.L.M.
Val des Rougieres
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France

Office Francais de Recherches Sous-Marines
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Paris, France

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62, Avenue Parmentier
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Association Naturiste des Amis de l'Ile du Levante
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Nimes (Gard), France

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Juan Les Pins (A.M.), France

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Club d'Exploration Sous-Marine d'Aquitaine
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Menton (A.M.), France

Azur Ski Club
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Nice (A.M.), France

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Paris IX^{0}, France

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4, rue Drouout
Paris IX^{0}, France

G.P.E.S. du Bitterois
9, rue du 4 Septembre
Beziers (Herault), France

Association Sportive des Cheminots Bitterois
Avenue du Marechal Foch—
Cafe des 2 Anes
Beziers, France

Sports Nautiques Populaires
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Marseille, France

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Marseille, France

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Underwater Book Shelf

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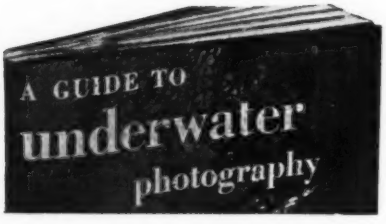
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Harvest from the Sea

(Continued from page 25)

ment that could be added to the diet of chickens, hogs and cattle.

He travelled to the West Indies, Mexico and Central America to make further tests—then, California. It was here the Giant Kelp proved to be richest in the nutrients he sought. He converted an old Sacramento River boat into a kelp boat, and established a seaweed processing plant in San Pedro.

He did one other thing that assured the success of his venture: he hired as his chief chemist a pretty, dark-haired graduate of the University of Minnesota –Gertrude Beckwith. She's been with the company ever since, and upon Park's death in 1947, became president.

In San Diego, under the presidency of Don E. Clark, the Kelco Company specializes in extracting algin from seaweed and is the world's largest supplier of this miracle stuff. Kelco operates two kelp-harvesting boats along the San Diego coast and processes the seaweed much as the Philip R. Park Company does. In addition, it refines further and extracts algin.

The secret of algin's usefulness is this: a tablespoon of it dissolved in water produces a substance almost as thick as honey. This unique property of algin is employed in almost 100 different products where it is desirable to make a product smooth, emulsified or adhesive.

For example, it makes ice cream smooth because it prevents large ice crystals from forming. Bakers add a little algin to cake icing so it won't stick to cellophane wrappers. Pharmaceutical, paint manufacturers and automobile polish makers use algin to hold drugs, pigments and abrasives in suspension. Algin is employed in the manufacture of rubber; it can be used as a glue; it can make textiles dye more evenly.

During the past two decades, hundreds of thousands of dollars have been spent on California's seaweed industry in research and development work to find new uses for this interesting natural resource. The State itself, through the Division of Fish and Game, leases the kelp beds and supervises methods of cutting.

California's seaweed industry today is only an infant alongside its great-grandpappy, agriculture. But as the world's populations grow and food shortages develop, we may have to turn to the sea for the things we eat. Acre for acre, the waters of the sea are hundreds of times richer than the best Iowa farm land. The ocean is ready to be harvested—as our kelp industry has shown that it can be.





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PORBANDAR, WEST INDIA—Divers at the **Porbandar** port are reaping a fortune in gold, silver and diamonds dropped by smugglers wary of approaching customs officials. A **Finance Ministry** spokesman said that $290,000 worth of diamonds had been recovered. The divers—POLICE.

SAVANNAH, GEORGIA—**Paul Garrett** and **Ben V. Smith, Savannah** divers, have been invited to join divers for the search in late June or early July of the steamship **Savannah,** believed to be the wreckage of the world's first steamship.

SALEM, NEW HAMPSHIRE—Skin divers probed the waters of the swollen **Merrimack River** in a search for the body of **Kenneth Heffernan** who was swept over the **Lawrence** dam when his outboard motor stalled in midstream.

PHOENIX, ARIZONA—A new development of the **Boy Scout Explorer** program for boys 14 and older is the "interest-group". Included in this program will be diving. The scuba diving group is already in the process of organization and members have started training.

SAVANNAH, GEORGIA—A public hearing was recently conducted on applications of the **Georgia Sportsman's Association** and the **Savannah YMCA Skin Divers'** club to develop three ocean areas. The **YMCA** club will develop the area offshore of **Savannah Beach** for skin diving.

ROCKFORD, ILLINOIS—**Rock River** was the site of a mass cleanup recently when 60 men and boys, including skin divers, turned up everything from a television antenna to an estimated four ton tree. **River Beautiful, Inc.,** plans to continue with clean-up drives every summer.

ADELAIDE, AUSTRALIA — Diver **M. E. Lawrie** of **Port Adelaide** was towed 20 feet below the surface off the **Althorpe Islands** on a sled in a vain bid to find £500 worth of tools and equipment lost in 50 feet of water.

GISBORNE, NEW ZEALAND—A **Maori** skin diver was being slowly strangled by an octopus at **Kaiti Beach** on the east coast of **New Zealand** until he freed himself by biting with all his might. Diving for shellfish off a reef, he was gripped around the throat by the tentacles of a four-foot octopus. Nearing exhaustion, he gripped a portion of its body between his teeth and tore at it. The octopus loosened its hold and dropped away. The **Maori** had his revenge by capturing the octopus and bringing it to shore.

ACAPULCO, MEXICO—**Rock Hudson** brought back a certificate from his **Acapulco** vacation, certifying he had reached an ocean depth of 150 feet while skin diving with two **Mexican** professionals.

MIAMI, FLORIDA—An adventuresome veterinarian and a 20-year-old nurse performed a "tumor" operation on a 500 pound jewfish at Miami Seaquarium. The operation was declared an "apparent success"—but the tumor turned out to be a three-pound diver's weight which the fish had swallowed.

MUSKEGON, MICHIGAN—Skin divers will be employed by the city of **Muskegon** to pinpoint the location of its **Lake Michigan** water intake lane believed in need of repairs.

SEATTLE, WASHINGTON — The **Central YWCA** and the **Seattle King County Red Cross Chapter** co-sponsored a water-safety workshop at the **YWCA.** The swimposium was for parents, recreational leaders and water sports enthusiasts, including skin divers.

CAPE TOWN, SOUTH AFRICA—During training dives in **False Bay** near **Simonstown Dockyard Navy** frogmen made a marine biological discovery termed "of momentous importance." The discovery was of a large living colony of spatagobrissus mirabilis which belong to the group of echinoderms among which are included sea urchins, cake urchins and "pansy shells". The frogmen first found a dead specimen and placed it in the diving school museum where it was recognized by **A. F. Talbot,** head of the marine biological section of the **South African Museum, Cape Town. Talbot** requested more of these shells and the frogmen found an almost unlimited colony of the living specimens. **Talbot** said that only a handful of these particular echinoderms existed, as far as was known, in the world.

REDONDO BEACH, CALIFORNIA — An ordinance prohibiting swimming and skin diving in the harbor area of **Redondo Beach** is up for adoption by the city council. Health authorities favored such a ban because of pollution of harbor water.

JACKSONVILLE, FLORIDA—Members of the **Jax Jetty Jumpers Skin Diving** Club have been discovering ancient relics in the backwaters, cavernous springs and deep lakes and rivers in **Florida.** The group have found part of a jawbone of a mastodon that has been verified as being between 130 and 300 million years old.

MELBOURNE, AUSTRALIA——**John Davis,** a **Melbourne** artist and a member of the **Underwater Explorers** and **Photographers' Club,** has combined his two hobbies and paints underwater.

GRAND TURK ISLAND, PUERTO RICO —After an investigation of the disappearance of a service man **(Coast Guard)** skin diver, it has been proven that he was devoured by the 200 pound sea turtle he had shot. Searchers found the turtle dead of the wound received from the missing diver's spear. The missing diver was alone with a lung. An autopsy of the turtle turned up several items that were convincing of the diver's fate.

DORCHESTER, MASSACHUSETTS—Members of the South Shore Neptunes have on more than one occasion been to the bottom of Swingle's Quarry (170 feet) when it was necessary to chop through 16 to 17 inches of ice. A recent announcement of the deepest under ice dive was to a depth of 140 feet.

DULUTH, MINNESOTA—**Jacques E. Stiles** was instrumental in raising a four place **Stinson** airplane with skiis from the bay in **Duluth Harbor.** The pilot was taxiing across the bay when he crossed an unknown fault in the ice which gave way under the weight of the plane. The plane nosed forward slowly giving the pilot and passenger barely enough time to escape. **Stiles** attached cable and chain to the submerged plane. The ice would not support wreckers or cranes so it was necessary to break the bad ice away, place posts for raising on the harbor floor and guide all operations from above by underwater work. The $8000 plane is now high and dry.

MARSEILLE, FRANCE—**Gill Faure** of the **Museum** of **Archeology** in **Marseille** is known as the Pioneer of the Silent World. She has been diving with the scapandre since 1946 and is one of the first women in the world (in addition to the pearl divers) to skin dive.

HOLLYWOOD, CALIFORNIA — **Marlon Brando's** new hobby is skin diving.

SACKETS HARBOR, NEW YORK—Skin divers at **Sackets Harbor** have discovered what they think is part of the ship **New Orleans** off **Navy Point** in **Lake Ontario.** The divers are trying to prove that another hull found two weeks prior is that of the brig **Jefferson,** part of the **Great Lakes** fleet under **Adm. Chauncey** in the **War of 1812.** The divers exploring are of the **Gillman's Club** of **Hartford, Connecticut.**

GROTON, CONNECTICUT — **Ernest Mildrum** of the **Gillman's** club was under observation at the submarine base infirmary after being taken there from **Sackets Harbor, N.Y.,** where he was diving on a **British** ship sunk during the **War of 1812. Mildrum** was first suspected of having the bends as a result of diving operations, but was found to have suffered a "convulsive seizure" not connected with underwater activity.

HOBART, AUSTRALIA — **Peter Brothers,** member of the **Marine Research Group of the Underwater Skin Diving and Fishing Association of Tasmania,** has located a rare species of sea life entirely new to **Tasmania. Brothers** and other members of his group were working on the barnacled 102-year-old wreck **Catherine Shearer** off **Dover** when he stumbled across what was described as a mixture of octopus, starfish and spider. The species was given to **Dr. E. Guiler,** chief lecturer in zoology at the **Tasmanian University,** who identified it as **Crinoid.**

TRENTON, NEW JERSEY—**Superior Court Judge Gerald T. Foley** has ruled sunken ships that are not claimed by their owners within a year and a day become the property of the state.

ST. TROPEZ, FRANCE — Four young **Frenchmen** have recently finished what many people would call a dream trip: fishing their way around the world. Most of the fishing was done underwater. In three years, they covered 25,000 miles and made some 1,000 dives.

SMETHPORT, PENNSYLVANIA — Divers are to assist in the search for a 17-year-old boy who drowned when he fell into the **Allegheny River** near **Larabee.**

NEWARK, NEW JERSEY—Police skin divers dragged two rusty bicycles and a "no parking" sign from the bottom of **Branch Brook Park** lake in an unsuccessful attempt to locate $11,725 in missing gems. The jewels, stolen from the glove compartment of a parked car, were believed tossed into the lake.

POINT DEFIANCE, WASHINGTON — A skin diver tangled with a speeding outboard motor boat at **Point Defiance** but apparently escaped serious injury when the motor bounced off his air tank. When the boat and diver collided the motor was knocked clear of the water. The boatsman turned and saw the diver reach shore safely.

SHIMODA, JAPAN—The ama women of **Japan** dive into the sea to harvest a valuable crop of tengusa, a special type of seaweed that is used in the manufacture of various confections.

DURBAN, SOUTH AFRICA — A giant manta ray weighing about 1,200 pounds gave an underwater fisherman the scare of his life when the ray playfully bowled him over and "wrestled" with him in about 20 feet of water near **Annabella Reef.**

PANAMA CITY, FLORIDA—Two skin divers rushed to the recompression chamber at **Panama City** from **Mexico** suffering from the bends are reported in good condition. **John Marden** and **Bates Littlehales** were stricken while investigating ancient **Mayan** wells in **Yucatan** for the **National Geographic Society. A Navy** plane from **Corpus Christi, Texas,** picked them up and flew them to the naval hospital in **Florida. Lt.** (jg) **Theron R. Van Sickler** said the pair were conscious when sent into the recompression chamber and would have to remain about 24 hours.

LONG BEACH, CALIFORNIA—The **Power Divers Skin Diving Club** abandoned a plan to salvage a capsized amphibious plane by towing it to **Long Beach's Alamitos Bay** with a fleet of outboard motor boats. The plane is so badly damaged it will have to be salvaged near the spot where it capsized off **Catalina Island.** The plane is sunk in 35 feet of water and has two huge holes ripped across the hull.

TRENTON, NEW JERSEY—State troopers diving in the canal at **Princeton** failed to locate the instrument with which **Jacob J. Mayer, A & P** store manager, was murdered.

GALLIPOLIS FERRY, WEST VIRGINIA—Diver Tom McGuffin volunteered his services to probe the second pond on the Rolfe Lee farm in an attempt to locate five-year-old John Wayne McKinney. A diver by profession most of his life, McGuffin is still active despite his 80 years of age. Police are investigating a kidnapping theory.

DURBAN, SOUTH AFRICA—**Donald Webster,** a **Johannesburg** skin diver, was attacked and bitten on the head and neck by a big fish believed to be a barracuda while swimming underwater at **Port Edward.** He is alive only because of his face mask and breathing apparatus which took much of the force of the razor sharp teeth. Nevertheless he was left with a five-inch gash on the back of his head.

CAIRNS, AUSTRALIA—**Fred Aprilovic** was trapped by the hand for four minutes in black, icy water at 43 feet below the surface of the **Mt. Garnet** town weir. **Aprilovic** was placing a wood and rubber cover over the opening of a two foot wide pipe running under the dam wall when his hand became caught. By exerting all his strength he was able to force the cover back against the pressure of the water and break free.

ALLEGHENY COUNTY, PENNSYLVANIA—A theory by **Allegheny County** detectives that a missing **Penn Hills** couple might be at the bottom of a **Westmoreland County** pond fell flat when skin diver **Thomas Shelnick** found only mud after a search of **Blue Lake. Mr.** and **Mrs. George Demko** have been missing since **New Year's Day.**

OCALA, FLORIDA—A dozen skin divers from the **Jacksonville Naval Air Station** searched the **Ocklawaha River** for the body of a **Gainesville** man believed drowned.

HARTFORD, CONNECTICUT—Skin divers failed to turn up a gun which, police said, was used by **Dorando A. Ferrari** to kill his girl friend. The divers, working in shifts, spent seven hours searching the **Connecticut River** bottom by **Bulkeley** Bridge. The divers were members of the **Hartford Gillman Club.**

WEEHAWKEN, NEW JERSEY—The **New Jersey Underwater Research Group** has completed its extensive cold water immersion tests. All findings have been forwarded to the **Air-Medical** research units of the **U.S.-A.F.** and the **Fleet Air Arm U.S.N.** at their request. Upon release of these findings by the services NJURG will make free use of the findings to all interested parties. Special commendations have gone to the following divers for their services in the compilation of facts and figures in actual tests: **Anthony Garma, Donald Flynn, Dan Decotilis, Joseph Milza, Donald Kenny** and **Paul Cirigliano.**

WAYNE, MICHIGAN — Attendance at **Wayne County Aqua Men** meetings is breaking all past records of the club. 1958 high attendance so far is 168 persons. Plans for the summer include dives on many **Great Lakes** sunken ships, a state spearfishing contest, underwater photography contest, weekend trips and many weekend dives.

NEDROW, NEW YORK — A skin diver found the body of **Timothy Mascari,** seven-year-old boy who was the object of an intensified search of the **Onodaga Creek.** The diver had to let go of the body or be drowned himself as his equipment became entangled in thick debris in the creekbed. Earlier a dummy was pulled from the creek. Searchers saw what appeared to be a body floating in the creek, but upon pulling it from the creek learned it was a stuffed gunny sack dressed in a checked shirt and pair of blue jeans.

MELBOURNE, AUSTRALIA — **Air Force** parachutists test frogmen suits and two new-type **Mae West** lifesaving jackets in jumps into the sea. The six men will make ten jumps in testing the equipment.

MARINETTE, WISCONSIN—A new boat to be used by **M. and M. Water Rescue, Inc.** will have aboard a navigator, radio operator, skin diver, person trained in first aid, personnel trained in recovery and the skipper. The craft, especially designed for rescue purposes, has fire fighting equipment on board and will be ready for immediate service. It will be manned on a rotating weekly schedule by five crews.

SANTA BARBARA, CALIFORNIA — Four skin divers made a scheduled run down the rain swollen **Santa Ynez River** recently making the 10 mile trip in an hour and 15 minutes. The divers estimated they reached a top speed of 15-18 miles per hour.

MONTREAL, QUEBEC, CANADA—**Major Ian A. MacLean** died under the icy waters of the **Ottawa River** near **Dorion** while attempting to recover the body of an elderly man who fell through the ice and drowned. An autopsy will be performed to determine the cause of death. **MacLean** had gained prominence last summer when he recovered parts of an ancient ship while diving in **Lake Champlain.**

ALBANY, NEW YORK—A skin diving **Albany** policeman satisfied investigating officers that the change-making machine two youths reported they threw into a **Hudson River** boat slip is gone. The diver, **James Collins,** spent an hour in the murky waters diving with a fellow diving enthusiast **Leonard Jones.**

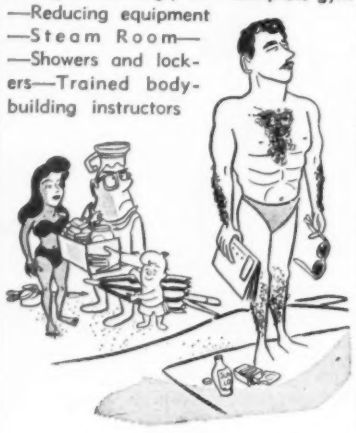
LAGUNA BEACH, CALIFORNIA—A skin diver stationed at **El Toro Marine Air Station** was rescued from a **Dana Point** cliff by a helicopter. **Robert Strickland** became marooned on the cliff after a 25 foot fall during which he broke his jaw and received numerous cuts and bruises.

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Jon A. Marshall and Agnes D. Phillips demonstrate the correct method of attaching the regulator to the tank for the water safety instructors.

THE RED CROSS AND SCUBA

By JON A. MARSHALL

In 1914, the American Red Cross started their Life Saving Service with Commodore Wilbert Longfellow as their head. At this time approximately 10,000 lives were lost each year by drowning. Over the years the Red Cross, realizing the many hazards involved in aquatics, started many other water safety programs including Swimming and Diving and Small Craft courses. As a result of these programs, the deaths due to drowning have decreased by about ⅓ to a figure of about 7,000.

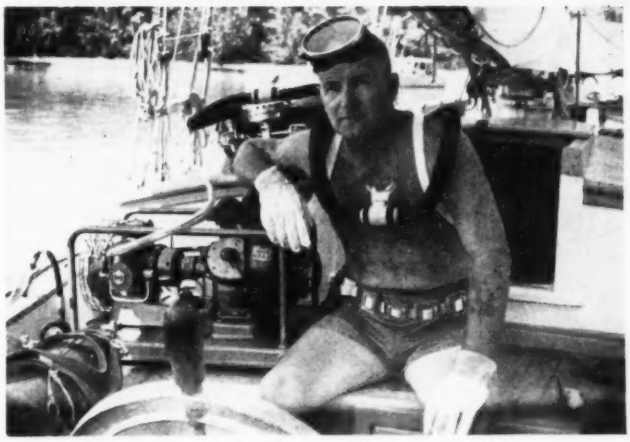
Since the war, Skin and Scuba Diving has become an international sport with nearly 5,000,000 participants in the United States. Not too long ago, the chief source of information was the sporting goods store which sold the equipment. It is highly probable that the sales force of sporting goods stores have never had the opportunity to use this type of equipment; therefore, they really don't know that much about Scuba Diving. Their knowledge of it comes from books, sales literature and second hand stories that have been handed down by people who have used the equipment only to certain degrees. This flexible type of knowledge is dangerous . . . even in the hands of mature adults.

Red Cross Water Safety Instructors are looked to as aquatic leaders, hence, it is necessary that a general knowledge of all phases of aquatics be within their education. More and more children are going to pools, lakes and ocean resorts and other recreational places with masks, snorkels, fins and an adventurous interest in the many types of lungs, frogmen and other underwater sports. Many of our present swimming leaders in order to prevent accidents and also because they have no knowledge of the sport have discouraged the use of this equipment at the many swimming resorts.

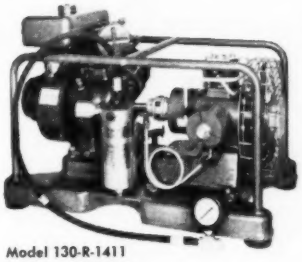
As Scuba Diving became a more popular sport, the Red Cross' interest grew due to the aquatic hazards involved. In order to give their instructors a broader

knowledge of Skin and Scuba Diving, Agnes D. Phillips, Director of Health, Physical Education and Recreation of the Philadelphia Y.W.C.A. and also a member of the American Red Cross Training Board, conceived the idea of holding an Instructors Refresher Course with Scuba as its theme. In March, 1958, this course was given to familiarize Red Cross Instructors with Scuba. Thirty instructors attended this refresher which was held on March 12, 19 and 26, 1958 at the Mid-City Branch Y.W.C.A. in Philadelphia. The Underwater Explorers Club of Philadelphia supplied the equipment and Fenjohn Company of Ardmore, Pennsylvania supplied the air for the lungs. Members of this course received course outlines and had a chance to use lungs, masks, fins and snorkels under the expert guidance of Bob Darwin, Jon A. Marshall, John Natter, Agnes D. Phillips and Joe Thompson. The American Red Cross of Southeastern Pennsylvania under the direction of Ed Mohr will pass on this knowledge of Skin and Scuba to the many people in their classes.

Our hats off to the Southeastern Pennsylvania Chapter of the American Red Cross and the Y.W.C.A. of Philadelphia for their fine cooperation in furthering the future of better aquatics.



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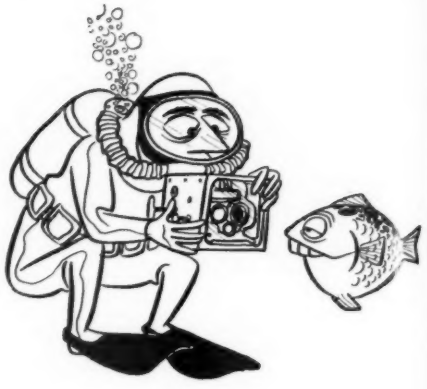
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GIANT UW PHOTO CONTEST

Conducted by SKIN DIVER Magazine
for the months of April, May & June 1958



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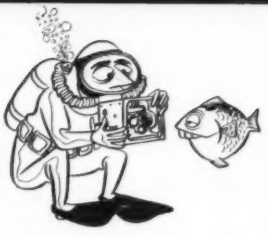
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CONTEST RULES

1. All entries to be received at SKIN DIVER office on or before JUNE 20, 1958.
2. Winning underwater black and white photograph will be used on the August, 1958 cover of SKIN DIVER Magazine.
3. All winners will be notified and prizes awarded on July 1, 1958.
4. First prize trip to the fabulous La Paz, B.C., Mexico fishing resort via Trans Mar de Cortez from Juarez or Tijuana must be used before July 1, 1959 (within 1 year).
5. Each entry of a black and white underwater photograph must be made with the OFFICIAL CONTEST BLANK.
6. Contestants may enter as many photographs as they wish.
7. Photographs to be judged are to be: 8 x 10 inches, black and white, glossy finish and taken underwater.
8. All entries in the contest automatically become the property of SKIN DIVER Magazine. Photographs with previous copyrights will not be considered.
9. All photographers are welcome to enter. There will be no distinction between amateur and professional underwater photographers or the camera equipment used for the photographs.

UW PHOTO CONTEST — OFFICIAL CONTEST BLANK

Skin Diver Magazine
UW Photo Contest
P. O. Box 128
Lynwood, California



Gentlemen: I submit the enclosed black and white, 8 x 10 inch, glossy underwater photograph to be judged in the SKIN DIVER Magazine UW Photo Contest. I understand that this photograph automatically becomes the property of SKIN DIVER Magazine. This photograph is not copyrighted.

(Please print:)

Name_____

Address_____

City_____ State_____

Photographer's Signature _____

Camera Make_____ Housing_____ Film Used_____

Speed_____ Aperature_____ Depth_____

Flash (yes, no) Bulb size_____ Location_____

Visibility_____ Special developing process (if any)_____

Subject description: _____

Model(s) Release: if necessary_____

This contest blank must be filled in completely and attached to the photograph with a clip.



Paste snap shot of photographer with diving equipment and camera used above, or attach securely to Contest Blank.

Northwest Dealer Highlites

By Forest Dawn

Up a 700 foot storm drain clogged with sand and only a six-inch visibility goes Tom Amerman of Amerman Divers, 7307 SE 78 Ave., Portland, Oregon. Tom is getting quite a reputation for salvage and repair work in the North West. This last job was the towing of a cable up the storm drain from the river to an entrance on shore in order to clear the sand and debris from the drain. Good luck, Tom.

One of the most interesting exhibits at the Portland Boat Show was the diving exhibition given by Jerry Hirsche of Foster's Sporting Goods, 8030 S.E. Harold, Portland, Ore. You all know Jerry as the holder of the underwater endurance record. Ray Worden, manager, and Jerry are the boys in the skin diving department at Foster's and are doing a real job of promoting the sport.

Up Seattle way, octopus diving is getting to be the sport. In fact, there was a television program on the cooking and preparing of octopus for the dinner table (maybe your dinner table, but not mine). It supposedly has no fish odor, is all white meat and is very good. I'll settle for lobster, abalone and just about anything that swims.

Osborn and Ulland (2nd and Seneca) in Seattle have been sponsoring an hour program on TV each week called "Let's Go Skiing". They plan on continuing it through the summer and changing the name to "Let's Go Diving". Each week there will be different movies on diving and also a report on the Puget Sound water conditions. Scott Osborn and Lew Wittaker are both active divers, getting wet at every chance they get.

Right across town, Gary Keffler of Puget Sound Divers is hard at work for a new compressor for their shop. Between diving, giving lessons and working in the shop, Gary has been keeping pretty busy. They're located at 2520 Westlake North in Seattle.

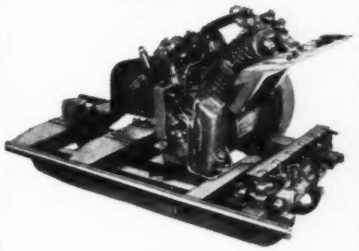
See you fellows next month, and don't forget, no more than five minutes without a lung.

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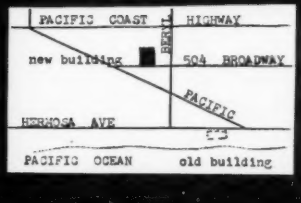
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NORTHEAST NOTES

By B. W. LUTHER, JR.

Northeast Council of Skin Diving Clubs,
P.O. Box 225, Fairhaven, Mass.

Three new divers have recently been voted membership in the Maine Marine Alpine Club. These include Everett Counts, a mail carrier who has an exclusive franchise for mail delivery to underwater creatures; George Feeney, a lawyer who will handle all cases personally, whereas fish vs. diver; and Charles Hagar, a stenographer who is a whiz at using pens that write underwater.



Brad Luther

Twenty-eight year old Paul Kenneally, member of the Bay State Aqua Club, was recently elected to serve on the Board of Directors of the Northeast Council.

Paul has been an ardent follower of the sport for the past four and a half years, and has taken an active part since affiliating with the Bay State Aqua Club. Paul is easily one of the most informed skin divers in New England, and spends considerable time keeping up with the latest advances in the sport. Paul also possesses a thorough technical understanding of skin diving equipment and its operation.

Paul was chosen as the first Public Relations Manager of the Bay State Aqua Club because of his sincere personality and the many many friends he has made in the sport and in other fields.

It is said of Paul that one of his outstanding features is his unwavering determination once he has committed himself to a project or endeavor.

On May 3rd, the Worcester Frogmen, Inc. held their first Installation Banquet in their five years of existence. The banquet was held at the Town Crest Club on Lake Avenue in Worcester, near the club quarters. The officers for the year 1958 were officially installed.

Also at this banquet, the Worcester Frogmen awarded the Don Robinson Memorial Trophy for outstanding sportsmanship. Don Robinson, past President of the Worcester Frogmen and past President of the Northeast Council, was killed in a boating accident, Fort Lauderdale, Florida, 1957. The recipient of this award for 1957 is Tommy Von Mello, the nationally known stock outboard motorboat racing driver, of Marion, Mass. Mr. Von Mello, with complete disregard for his own safety, gain, or damage to his own equipment, pulled an injured racer from the water and ran his own boat on to the beach. This occurred during the National Outboard Motorboat Races of 1957, held at Lake Quinsigamond, the home of the Worcester Frogmen, Inc.

The Fitchburg Sharkmen, which was organized in 1953, was primarily an inland group of lake divers. One of their first public functions was the cooperation they gave to the State Department of Natural Resources in reclaiming and restocking the numerous lakes in the region. High pressure air and meeting places were hard to come by five years ago.

In 1955, The Fitchburg Sharkmen

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volunteered their services to the Leominster Civil Defense. Being welcomed, the newly organized Leominster C. D. Rescue Divers held their first official meeting November 3, 1955. This group of divers was one of the first to be sponsored by Civil Defense. C. D. provided them with a compressor, a meeting place (with a pool for training), other necessary emergency equipment and a truck in poor shape to transport equipment and men. Through hard work, the divers transformed the truck into a smart looking, efficient rescue vehicle. The group was very proud of this truck and rightly so.

In 1956, when the most experienced divers from Massachusetts met with the State Rescue Officer to discuss underwater rescue, the Rescue Officer recalled the Leominster Rescue truck to Topsfield, location of the state training grounds. After extensive labor and expense on the part of the Leominster C. D. Rescue Divers, here they were to lose their truck. In my own opinion, "A great mistake and injustice on the State's part."

A truck does not constitute the making of a good rescue team, and the divers continued their good work participating in many emergencies. Chief Underwater Rescue Officer, Harold Farnsworth, and his other officers, maintain a complete list of the divers and equipment.

Having worked with and witnessed this group in action, I can honestly say they are a great bunch of fellows running an efficient organization.

Under the direction of the Northeast Council, the Fairhaven Whalers plan to conduct the second Tournament Meet of the season, June 8th. The meet will be held in Fairhaven waters and Robert Lanagan, tournament director for the Whalers, reports that the treasure hunt will be of an unusual nature.

One of the projects that the Boston Sea Rovers are working on is the standardization of Scuba instructors. The club plans to formulate and publish a lesson plan pamphlet for instructors only, which Neal Hess, a certified instructor from Los Angeles, is authoring. It is hoped that the Northeast Council will approve this course and recommend that new students contact instructors that have qualified for this course.

The Maine Dolphins, a newly formed club from Auburn, Maine, has joined the roster of the Northeast Council. Officers of the Maine Dolphins are: Everett Davis, president; Carl Sedqeley, vice president; William Gardner, treasurer; Wanda Fass, secretary; and Jack Bailey, sergeant-at-arms. Divers in the Auburn area wishing to join a club may contact Everett Davis, 316 Court Street, Auburn, Maine.

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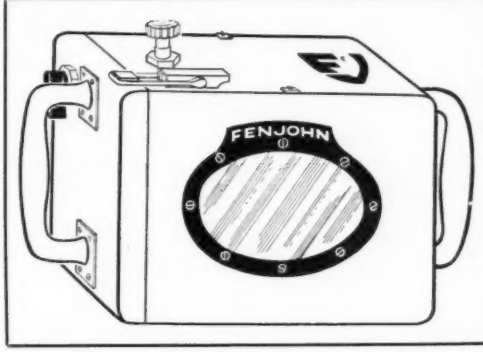


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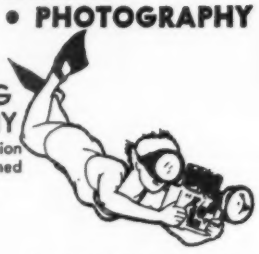


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SOUTHEAST FLORIDA COUNCIL OF SKIN DIVING CLUBS

P. O. Box 42543
Miami, Florida

By Bud Cox

MIAMI, June 1—The Southeast Florida Council of Skin Diving Clubs and the Florida Association Amateur Athletic Union announced today that the Southeast Council has been awarded AAU sanction to conduct the 1958 Florida State AAU spearfishing tournament. This contest will be held at Marathon in the lower Florida keys on June 23.

The 1958 tournament will utilize the same point system of scoring that was so successful in the 1957 tournament. This system of scoring is an answer to the charge that tournaments are organized slaughter of fish. Under this system only the larger fish are worth points and a contestant would be wasting valuable time shooting a large amount of small fish of the same species. This system allows five points for the largest fish of the species, four for the next, etc. The charge that spearfishermen are depleting the fish population is the basis of the spearfishing ban that now covers the upper keys and there are at least 17 other Florida counties that have restrictions predicated on this "conservation" premise.

Tournament officials anticipate a starting field of at least 15 teams including Southeast Council teams from the Miami Skin Divers, U of M Sea Devils, Mola Mola International Skin Divers, Miami Makos, Reef Divers, Coral Gables Cudas, Glug-Glugs, Tidemen, Morays and the Squids.

Names of the individual team members were not available at press time, but probable participants include Jack Slack and Phillip Bissell Shaver II who were members of the Sea Devils' team that participated in the nationals last year; 1956 Cuban champion Herby Ruiz, now of the Miami Makos; AAU medalist Al Riddle of the Mola Mola International Skin Divers; Makos past president Jim "Water Dawg" Harding who is the top one-armed spearfisherman of this area and it is expected that other sections of the state will send divers of the same caliber. The top seeded Miami Skin Divers will field the same team they sent to California last year.

Most of the Southeastern Council teams are entering this tournament for

(Continued on next page)

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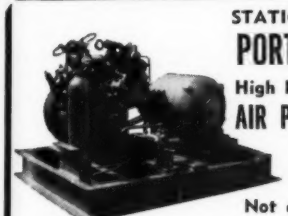
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the first time, therefore there are a lot of dark horses in this underwater race. A clue to the quality of these teams can be found in some of the club requirements and attributes. Ninety percent of the Mola Mola International Skin Divers make their livelihood diving at the Miami Seaquarium and this club, plus the U of M Sea Devils and the Miami Skin Divers, require that applicants free dive to 50 feet before they are considered for membership.

Cudas Do Bite

A member of the Mola Mola International Skin Divers recently had the misfortune of proving that a wounded barracuda will attack a man. Most Florida skin divers regard the cuda as a curious fish with wicked teeth, but like most other fish the cuda is not inclined to attack a fish (diver) that is several times his size; this cuda evidently was not aware of that rule.

Al Riddle and three others were snorkling on the reefs six miles off Key Largo in 30 feet of water when Al spotted a good-sized grouper. (It might be mentioned that Al is an excellent spearfisherman who has a number of AAU team and individual trophies to attest his underwater prowess.) All during the chase there was a large cuda "crowding" Al. This cuda, which weighed in at 22 pounds when caught, finally became so aggressive that Al shot it just forward of the gills with a five foot free spear, but it was not fatal and the cuda attacked. Al fended the fish off with his arbalete, but he missed the cuda on one pass and the cuda did not miss Al's leg. Al bled so profusely that the fellows called for a Coast Guard helicopter to take him to the hospital. After 14 stitches and two pints of blood Al had some time to contemplate his mistake.

Makos Form Miami UET

The Underwater Emergency Team of the Miami Makos is now furnishing divers to the Miami Police Department for use in emergencies requiring skin diving services. Makos president Austin Huhn recently affected this arrangement through the cooperation of Mayor Robert King High, Police Chief Walter Headley and Sergeant D. K. Martin who is in charge of the harbor patrol division.

The UET consists of ten fully qualified divers who are available for emergency calls. Most of these men have salvage experience and several are professional divers. Miami, with its Biscayne Bay, Miami River and many canals, has almost as much water traffic as it has automobile traffic. Water accidents are frequent, although the majority of water emergencies involve either vehicles driving into the canals which criss-cross the city or children

(*Continued on next page*)

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SOUTHEAST FLORIDA

(Continued from page 53)

drowning in the numerous rock quarries. Miami's many drainage canals average 15-20 feet in depth and a car is usually completely covered with water when it goes in a canal. Some of these autos are not discovered for months or years. Recently a car missed a curve on an isolated road and landed in the water on top of an auto that had been submerged, and undiscovered, for three months.

Fishbox Scuttlebutt

The University of Miami Sea Devils have made a trio of weekend trips to the Bahamas so far this year. These three-day trips are made on a 42 foot cruiser and all 14 berths (deck sleeping space) have been filled; fine fishing . . . SEC, in cooperation with AAU, is planning to set up a skin diving clinic to further its program of teaching safety to all new comers to skin diving; another step for Sam Snorkle . . . Coral Gables Cudas have made photographer-manufacturer (Seahawk) Jerry Greenberg an honorary member . . . Miami Reef Divers are plutocrats with two big boats; one salvage, one spearfishing . . . Miami Morays have a skin diving grandmother who scubas with the best of them . . . Miami Makos working on flying weekend deal to Bahamas; price is only hitch and good possibility that will be overcome . . . Southeast Conference is circulating cards saying, "You have just been patronized by a spearfisherman," in the upper keys (banned area) to show the businessmen that the ban is hitting them where it hurts; in the pocketbook . . . Winter and spring weather so bad in Miami that one Makos monthly fish prize went to the lone entry; a 15 pound jack . . . Skin diving Mayor Robert King High of Miami continues fight against bolita gambling and crooked linen shop operators; his interest runs from underworld to underwater to underwear . . . as the truck driver printed on the back of his van, "Have wife, must travel." ➤

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DIVE SHOP CHATTER

By CHUCK FREMDLING

We have three new skin and scuba specialty dive shops to talk about in the column this month.



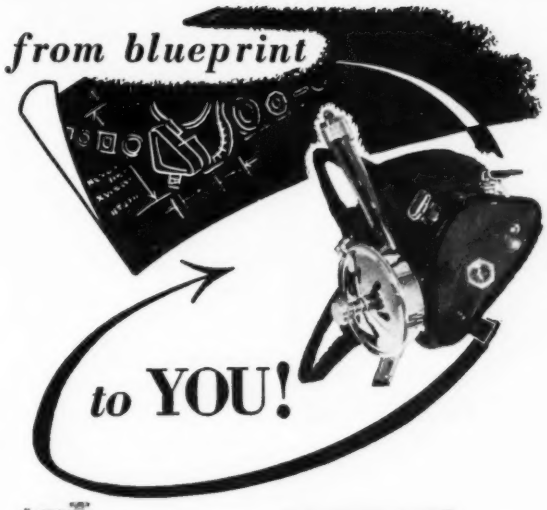
Chuck Fremdling

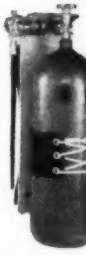
Frank Dee, formerly with Hollywood Sporting Goods, has taken the step of operating two new shops, "Dee Sporting Goods", 1714½ N. Whitley Ave., Hollywood, Calif. and "Dee Sporting Goods", 1707 W. Magnolia Blvd., Burbank, Calif. Both stores have complete diving gear and air stations. Now is the time for you beginners in that area to pick up the phone and call Hollywood 29593 for an appointment on scuba instruction at one of their classes.

Joyce's "Seasports" operated by its owners, Joyce and Art Hulse, is located at 15248 Crenshaw Blvd., Gardena. Both are ardent divers and are just hungry to meet a lot of you divers. Drop in and introduce yourselves and see their new store with its complete diving gear, suits and fishing tackle. An air compressor has been ordered and should be there by the time you read my article. Drop in and fill up your tanks with air. They are both real swell people.

"Mel's Aqua Shop", 1911 S. Catalina Ave., Redondo Beach, Calif., is getting growing pains. Just recently the cleaning shop next door moved and Mel has moved in. Stop in and see the many changes. With this added room he now can display the many trophies gathered from the sea.

Aquatic Center, 4323 W. Coast Hwy., Newport Beach, Calif., has just recently purchased a new electric air compressor and is associated with new personnel, Bill Baker with three years diving experience. With the many beginners taking their scuba classes, looks like more instructors are needed. If you are looking for any extended diving trips, give them a call for Jack Kirk's "Vellron".





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DOLPHIN PRO. Cat. No. D 270, two 70 cu. ft. cylinders. Ship. wt. 78 lbs. List price $245.00.

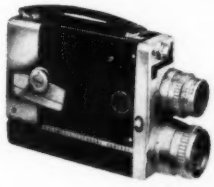
Air Reserve Valve—Add $16.95

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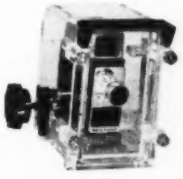
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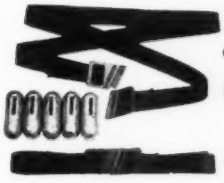
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RHODE ISLAND COUNCIL REPORTS

By John J. McAniff
184 Bellevue Ave.
Newport, R. I.

At the end of over two years of planning and organizing, a Council of Skin Diving clubs for the State of Rhode Island has been successfully set on the road with the election in January of the first permanent officers. Roger Brissett, former President of the Pascoag Spearing & Diving Club was elected as President of the new Council and brings to his new office more than ten years of active diving experience. As Vice-President we have yours truly, John McAniff, past president of the Newport Underwater Sportsmen and presently serving as vice president of the Newport Club. To add a bit of feminine charm and glamor to the scene we have Mrs. Ruth Hull as Secretary, the charming wife and active diving companion of the president of the Narragansett Spearfishing Club. The purse strings of the council will be in the hands of Joseph Mulholland, also of the Narragansett club, who was very active last year as the R. I. Council Representative in setting up the meetings with other Regional Councils which resulted in the successful East Coast Championships for '56.

The Delegates, two from each member club, who make up the R. I. Council, have worked hard over the past few years while the Council suffered the usual growing pains of such an organization, but with all the "easy" work behind us we are all settling down to the task of making this the most successful group of its kind.

Some of the past accomplishments of the group while still in the formative stage include the joining as a body in the activity and membership of the R. I. Federation of Sportsmen's Clubs to strengthen our position relative to Legislative matters. The Council also ran a very successful combined R. I. Spearfishing Championships and East Coast Regional Eliminations last June. More recently we have just approved the use of the New AAU Competitive Skin Diving Committee's Spearfishing Rules and unanimously approved the new Divers Flag for use by all member clubs. In the immediate future plans are underway to publicize the flag to the many other sporting groups and the proper authorities as extensively as possible.

During 1957 the council was under the leadership of Al Point as temporary chairman, and Al's club, the R. I. Underwater Spearfishing Club of Pawtucket deserves much credit for the

(Continued on next page)

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RHODE ISLAND

Council ground work. At the home of Walt Blackinton, vice president of the above club a "bull session" was held on March 29th to acquaint all the clubs in the state of the progress of the R. I. Council and concensus of opinion seemed to be that with the full cooperation and a bit of work on the part of all clubs and their members, this fine sport of skin diving in all its phases, can look forward to a very active future in "Little Rhody."

To keep this column active and informative it will be necessary that all data from the various clubs and all statewide newsworthy items be forwarded to me at the above Newport address, so keep the news coming and we'll see that it's properly publicized. We would also like to extend the invitation to all divers in the state to contact the Council whenever necessary. The Council exists primarily to serve the best interests of the sport and we stand ready and able to do so whenever called upon.

A last minute news report has come in from our Council representative after attending a meeting at Norwalk, Connecticut. This year's East Coast Regional A A U Spearfishing Championships will be under the direction of the Connecticut Council of Diving Clubs. Details of this important event will be forthcoming soon.

Another 'flash'; The Rhode Island Council will sponsor an Individual Rhode Island Spearfishing Championship Tournament on August 17th, open to all resident skin divers in the state or members of R. I. Council Diving clubs. Location of the meet has not yet been established.

Santa Rosa, California . . .

SONOMA COUNTY REEF RUNNERS, INC.

By Al Hart

January, February, and March saw us very much flooded out, and no diving to speak of. We used that time planning the years program, of dives, competitions, training programs and in general getting our equipment in shape. The training program was under the direction of John Wion, with classes held at the City Pool, each Thursday in April (evenings). In March the members designed a beautiful patch to be worn by the members, with art credit going to Lowell Sanders and Gay Dutcher, Mrs. Pat Prater made the first emblem. The colors and design were taken from the new skin diver flag and it looks sharp.

With the good weather up on the coast around Fort Ross the fellows have been getting some terrific fish and abs. Ken Adams found an old anchor in 25 feet of water at Still-Water Cove. It was estimated at about 100 to 125 years of age, belonging to either a Russian, Spanish or English ship. The Curator at Fort Ross is checking it now.

Anyone interested in diving is invited to join us at our monthly meetings held the second Wednesday of each month at the Franklin Park Club House, Franklin Ave., Santa Rosa, Calif. We always have movies, refreshments and a good time.

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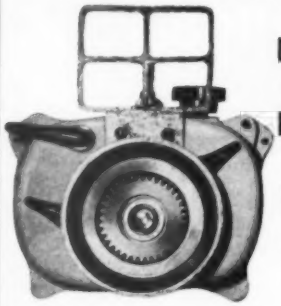
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Springfield, Massachusetts . . .

MASSACHUSETTS SEA LIONS

By David Winkley

The Massachusetts Sea Lions have joined the ranks and have adopted the skin diving flag. To educate the Public and the boat owners about the use of the flag the club set aside the third week of May for an all out campaign. To do this we used T.V., radio, newspapers and Power Squadrons. We also put posters in boat and sports shops.

The club has made a 16MM film of diving under the ice. Several of the members of the club have been swimming since January.

St. Petersburg, Florida . . .

CORAL CAVE MEN OF TREASURE ISLAND

By John Stephan

Water temp. at 5:20 P.M., Sat., April 4th —71.6° F. Water visibility—clear in many spots, turbid in some areas.

The new, accurate temperature which you see above is the result of our new program to scientifically measure the temperature periodically instead of depending on other reports.

Recently this writer gave a talk for the navigation class of the local U.S. Power Squadron in order to help publicize the Divers Flag.

I also had the privilege of attending an extremely interesting lecture given by Dr. Eugenie Clark, the noted ichthyologist and author of the book **Lady With A Spear,** on the subject of marine biology and the work she is doing at her lab located at Placida Florida, just about sixty miles south of here.

Cannes, France . . .

CLUB ALPIN SOUS-MARIN

By H. Broussard

Our club, founded in 1946, is the first established in Europe, and its activity concerns all the applications, both scientific and sport wise, of diving in light autonomous equipment.

The activities of the club range from the simple touring of the sea to the systematic exploration of sea bottoms to scientific research in diving, studies of submarine engines, photographic apparatus, cinematography, television, submarine archeology, submarine ichthyology, etc. In 1955 the club organized the First International Congress of Submarine Archeology.

The center of submarine activity is at Cannes where our diving school graduates the best international instructors. The club furnishes its equipment to its members, who once initiated to diving, may go out in groups under guidance of an instructor or alone. To this date the club has instructed more than eight thousand sport fans.

Los Angeles, Calif. . . .

PESCADORES, INC.

By B. Parrott

We now have three dives behind us and two more planned. Our dive at Anacapa aboard the "Tom-Boy" was very enjoyable with Harry Davis taking the Diver-of-the-Day trophy for his 11½ lb. sheepshead. Our other trip was to Catalina with John Gaffney copping the trophy with his 13 lb. sheepshead. On May 10 we were off again on the "Tom-Boy" for Anacapa.

We met at the Switzerland Cafe the last of May to complete plans for a three day trip to Mexico.

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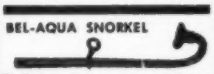


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Spokane, Washington . . .

AQUA KNIGHTS

By Al Lemmons

The latest meeting was held at Fairchild Air Force Base in their swimming pool. A very good turn out of approx. twenty members were present. The main purpose of this meet was to determine how the individuals acted and handled themselves underwater, along with safety as a main factor. Everyone did very well.

This club is only a few months old and with this many enthusiastic members, we figure it will work into a very nice organization. A spearfishing meet is planned soon as the lakes are warm enough to swim in.

Sandusky, Ohio . . .

SANDUSKY FROGMEN, UNDERWATER EXPLORERS

By Ray Zahniser

We are eighteen members strong and are active the year around. We have a rescue squad that works for the authorities in the surrounding counties in cases of emergency, drownings and recovery of lost possessions.

We have had one successful recovery of a drowned skating victim through ice, and other underwater jobs such as repairing an underwater water main and finding of damaged lighting and power cables for an island in the Lake Erie region during a power failure.

Four club members also volunteered their services to help in the rescue operations of the tragic school bus disaster at Prestonsburg, Kentucky. These men were Denver Houser, Ron McGrain, Ron Beechler and myself. Anyone interested in contacting our club can write to me at 820 Osborne St., Sandusky, Ohio.

Rockford, Illinois . . .

GREATER ROCKFORD LUNG DIVERS, INC.

By Jack Egler

Twenty-eight people from the Greater Rockford Lung Divers, Inc. attended the banquet of the Illinois Council of Skin and Scuba Divers at which Don Smith presented Captain Cousteau with a plaque making him an honorary member of the Greater Rockford Lung Divers.

Lloyd Bridges star of "Sea Hunt" was given a cigarette lighter by Carl Hauber and Jim Samorian with an appropriate inscription making him an honorary member of our club.

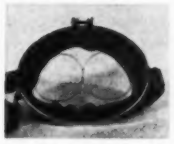
The club has had some wonderful TV and newspaper publicity in the past few months. This has brought some new members and lots of inquiries from interested people. Ed Thorne, Bob Minshall, Bob Doyle, Bob Greene, and Jack Egler spent a couple of weeks in Marathon, Florida in the keys hoping for good diving weather. There was none to be had.

Hawthorne, California . . .

KELP BUGS OF HAWTHORNE

By Gary Ruhman

Our new club started in February of this year and to date we have had several beach meetings in addition to the business meetings the first Thursday of each month. Our paper work (constitution, by-laws, etc.) is finished and now the club is starting to roll. Thanks to the Sharks Club for letting us borrow their constitution to use as a style. No elections have been held as our leading members Mike Scott, Dick Angold, Les Bacis, Roy Carpenter and Gary Ruhman are doing a fine job. We would like to hear from other clubs, write to us at 5010 West 138 St., Hawthorne.



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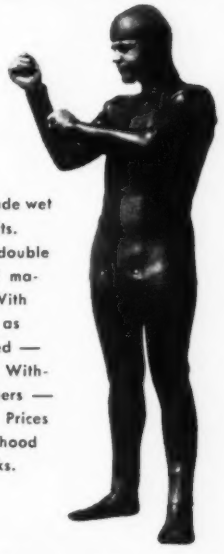
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Oak Park, Illinois . . .

DENIZENS OF THE DEEP

By Rick Wetzel

We are a high school age club of the Oak Park YMCA. At the last meeting we talked over summer plans, elected new officers, adopted the Divers Flag and a set of hand signals for scuba members. Bruce Martin, former secretary, is the new president and Rick Wetzel secy.-treas.

Sam Davison of Dacor recently explained the construction and operation of their regulator at their assembly shop in Chicago. He was also kind enough to give us the use of two units to allow members who had never used scuba a chance to do so under his excellent supervision during a recent pool dive. We all wish to thank Sam for his time and interest.

We are still looking for members and anyone wishing to join or wanting information about our club should contact Rick Wetzel, 246 Taylor Ave., Glen Ellyn, Ill. ➥

Santa Monica, Calif. . . .

NEPTUNES RAIDERS

By Marge Brown

A donation of three paddle boards was made to the Lincoln community club for teenagers. Homer and Marge Brown resigned their offices. Homer who has been twice elected president will be going to England to do some movies. Marge will return to Minnesota to live. Upon his return, Homer will open a skin diving store in Florida.

R. L. Pat Patton replaces Homer as president. Carolyn Wilkinson replaces Marge Brown as secretary-treasurer.

We shall soon have a new club emblem that Jim Haggert's sister is drawing up. Anyone wishing to join the Raiders can obtain information by writing to R. L. Patton, 2350 Hill St., Santa Monica. ➥

Pawtucket, Rhode Island . . .

RHODE ISLAND UNDERWATER SPEARFISHING CLUB

By Albert W. Pipes

Our Club is due to start the "Summer Season" on May 24th with a "Family Outing" at Beach Pond, these events proved very popular in previous years. Gil Simmons is Chairman of this event.

The R.I. Underwater Spearfishing Club has increased their dues considerably and as a result we have a more active membership, with this raise in dues we were quite surprised with the rapid increase of NEW members, so much so that the club is considering club limitation.

This year holds promise of providing a few pictures of our Underwater Activity, we have mostly been a "Spearfishing Club", but many of us have lost some of the "Thrill" of spearfishing, so now we are looking forward to underwater photography. ➥

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Columbus, Ohio . . .

COLUMBUS SEA NAGS

By Robert Nose

The first class of safety and skin diving has been completed at the Columbus Y.M.-C.A. We have taken for our name, "Sea Nags".

Our first undertaking as a club was to try to salvage an automobile from a local quarry lake, the car was located,—now for the salvage job!

We are having a dance to raise funds for an air compressor for the club. We are now starting a new course in safety and skin diving. Anyone who is interested should call the Columbus Y.M.C.A.

Toronto, Canada . . .

UNDERWATER CLUB OF CANADA

By C. B. Davis

Our first outdoor swim for 1958 took place on March 16th at Port Credit on Lake Ontario in 35° water. Ten divers in buddied pairs clenched mouthpieces and braved the chill water for half an hour.

Many types of dry suits were tested, including neck entries, waist entries and front entries, also several types of glove and mitten to wrist seals. The results favoured a wet suit under a dry suit with full mitten or one-finger mitten over metal wrist seals for best results against temperature and leakage.

The swim was successful and the weather perfect, though cool.

Pomona, California . . .

POMONA VALLEY SKIN DIVERS

By Jim Rasmussen

The Pomona Valley Skin Diving Club did not gather any dust during the winter months. There were trips to Catalina and San Clemente Islands, Puertacitas, and the Ensenada area, as well as our local beaches. Among our most memorable excursions were those aboard the Vellron, which docks at the Seasport Landing in Newport Beach. As a diving boat the Vellron rates tops with us.

We have changed our meeting place and meeting nights. We now meet in the Central Park Club house, located at Second St. and Parcells in Pomona. We meet on the second and fourth Wednesdays of the month, at 7:30 P. M.

Our club is a very active one and is growing in numbers as well as in experience. We hope to see even more new faces at our meetings as the summer progresses.

Torrington, Connecticut . . .

NORWESCON SKIN DIVERS

By Jack Hricko

Since Norwescon is a club solely dedicated to safety, training and education in the water we feel it appropriate to say a few words on the unethical practices being carried out by certain clubs and equipment dealers.

Clubs first. Since skin and scuba diving is a comparatively new sport and since there are so few trained divers, the only way a person can get training in most cases is through a club. Those clubs which refuse to take in inexperienced members are inviting tragedy if they refuse to train those who need it. They are hurting themselves and the sport in general when word of an underwater tragedy spreads and it is learned that the victim was inexperienced and untrained.

Equipment dealers are, in many cases, committing as unpardonable a sin as the clubs when they sell equipment to people who are obviously immature and inexperienced in the art.

Norwescon proposes that clubs hand out certificates of qualification to qualified divers and that dealers sell equipment only to those who hold certificates. This would help reduce the number of lives lost through inexperience and carelessness as well as promote the many benefits which can be found only in club activities.

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Salt Lake City, Utah . . .

SALT LAKE SKIN DIVING CLUB

By James M. Parks

On March 23rd, fourteen of our members cut through a foot of ice at Bear Lake and found diving unusually fascinating. Dave Windburn tried his wet suit out and found it to be satisfactory.

Because of so many new members in the club, some of the older divers, headed by Gus Beuter, have been holding training sessions in a local pool to pass on our basic qualifying tests. Another committee with Vern Gorzetze, is organizing and training an emergency rescue team. This was motivated when two children drowned in a local river. The police would not let any of our divers into the water, and instead did a really messy job on the kids with grappling hooks. We contacted police officials who agree to utilize our diving skill if we can whip up a crack rescue team.

We've tentatively set the week of July 1-7 for our next extended coastal trip. We're going to try to spend the entire time on Catalina.

We've heard rumors that a group of divers from Provo, (south of Salt Lake), have joined into a club. If so, we'd like to hear from them. Possibly if we work together we can make a dent in our Fish and Game Dept. We've just been itching to take a crack at some of the big lake Mackinau in our lakes. ➥

Brooklyn, New York . . .

AMERICAN PORPOISE CLUB

By Diana Janukatys

New officers of the club are: Stan Adler, Sonny Slizewski, Diana Janukatys and Jim Statler. Club meetings are held the fourth Monday of each month at the Brooklyn Central YMCA.

The club is interested in enrolling new members in any of the courses given by experienced club members. These courses include first aid, advanced swimming, life saving and scuba. The competition committee will hold club eliminations at Montauk Point on the last weekend in June to determine who will represent the club in the East Coast Eliminations. Other clubs in the area are invited to compete against the Porpoise Club and prospective members are urged to attend our meetings. Write to: American Porpoise Club, Box 182 Van Brunt Station, Brooklyn 15, N.Y. ➥



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Hartford, Connecticut . . .
CONNECTICUT SEA DEVILS
By Art Santos

The ice has left the lakes and the winds on the sound are decreasing day by day. The welcome sign that spring is here and we are about to start a new season of spearfishing and scuba diving.

Our first official club dive of the 58 season will be at Gardner Lake. We have had reports from the local property owners that a cottage had sunk while being transported across the ice a few years ago, since none agree on the location, it should be a very interesting dive.

Santa Monica, Calif. . . .
SANTA MONICA SEA LANCERS
By Pierre Koenig

The Sea Lancers showed their intrepidity on Johnny Logan's boat last January 25th when they went diving at night in a gale. The adventure started at noon with the sun shining and all hands on deck. After an afternoon of lobster and fish hunting, where Stan Wallen made the days record with a 14-lb. female sheepshead, we had dinner and started out to sea for parts unknown when the gale hit us and forced us back into the harbor. Undaunted, we anchored and everyone swam back to another part of the seawall with flashlights and etc. for more lobster. This time, however, old dad and mom had headed for deep water leaving only thousands of baby lobster, about the size of shrimp, in every nook and crannie. A beautiful sight to behold with their reflective eyes peering into our flashlights but hardly game for a diver. Some day when all these babies are grown I think we'll have a good spot.

Oceanside, California . . .
OCEANSIDE GREEN DOLPHINS
By Don Caron

At long last the North County Area of San Diego County has an organized diving club. A club constitution was drawn up and club officers elected at our meeting of January 14, 1958 and with the help of the Art Department at Palomar Junior College we undoubtedly have one of the finest club emblems you'd ever want. We have, through the help of some of our Marine members, adopted a training program similar to the one used by the Marine Corps Amphibious Recon.

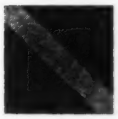
Enthusiasm and interest are high and we have held at least one dive every weekend throughout the winter. Fishing has been good and many sheepshead in the fifteen to twenty pound category as well as lobsters over ten pounds have met their fate as our club is preparing for the summer competition.

Our club meets the second and fourth Saturday evenings of each month at the South Oceanside School on Cassidy Street. Anyone is welcome.

Hartford, Connecticut . . .
ASSOCIATED SKIN DIVERS
By Paul D. Schmanska

It was a long, hard winter, broken only by regular sessions in a swimming pool and our annual mid-winter revel which separates the men from the boys, the wives from the husbands, the mead from the mug and many from reality. However, all that is past and henceforth the steely-eyed, hard-muscled, deep-chested athletes will be hard at the task of winning the Connecticut AAU spearfishing eliminations again, so we can take another crack at the East Coast title.

The trek into the Atlantic after tautog started even earlier this year than is the usual custom, but the first take included only a few flat fish and a small, hybrid bit of fauna which resembled a crawfish near starvation

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Miami, Florida . . .

REEF DIVERS

By Bob Phifer

Due to the cold weather the club hasn't been too active though a few have been brave enough to try their luck. Not many fish were caught but I believe everyone had fun, if you call freezing fun. A lot of work has been done on the club boat by a very few people and I believe its about ready to really do some good diving.

Our club has just joined the Southeast Florida Council of Skin Diving Clubs as they seem to be all out for keeping skin diving a sport which we can enjoy without having to duck around the corner.

The club is again this year sponsoring free classes in skin diving at Benny Babcock Pool and I believe that we are going to have a much larger program for the public. The city of Hialeah has been wonderful about letting us have this pool as it not only helps skin diving but helps us keep in condition as well. ➧

Flushing, New York . . .

THE LONG ISLAND DOLPHINS, INC.

By Bob Roth

Our season is well under way with two beach parties (really 1½) over. We held beach contests for non-diving wives and kiddies, as well as water events. Our program is tentatively set up for the season; a different person being responsible for each shindig. This takes the burden off a few, gives everyone time to organize new ideas and check out new diving spots.

Other coming events are eliminations for this year's spearfishing team and club raffles to fatten the treasury (a clubhouse, maybe, some day?) After a hassle we decided to sell the club owned lung because of possible legal liabilities. We are recommending to the Empire State Underwater Council that they consider changing spearfishing contest rules somehow, so that less fish are taken for better publicity. ➧

Venice, California . . .

WEEKENDERS

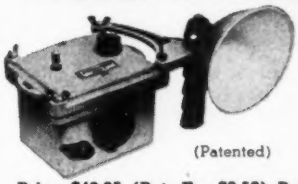
By John Logan

The Weekenders (San Diego branch) inaugurated with a full weekend of activities on April 25, 26, 27. A get-to-gether party prepared and sponsored by Ken and Nell Walgren on Friday evening started things off into sometime early Saturday. Bill and Louise Stock, Jack and Lorreta Ogden, Lem Morris and Betty, Bob and Dorothy Wilken, Bill and Jennie Thomson, Frank Tosca, Chuck Merridith and Jackie Wells, Ralph and Charla Martin, Johnny and Louise Logan will remember this party for many moons.

Murky water hampered the diving Saturday morning but the water skiing Saturday afternoon left no one disappointed. Dinner at the beautiful Bali Hi overlooking the Bay, and visits to the Kona Ki, the Skyroom atop the El Cortez, and the ride down the glass elevator on the outside of the building was a novel experience. A brief stop at the Bahia and then on to the Chez Amies dance to top off Saturday.

Sunday visits to the points of historical interest and then home to rest up for the coming week. With such an auspicious start we are sure that we have a lively group here. Plans were set for several summer weekend trips. Our next meeting will be in Santa Monica. A party for the Los Angeles members If you would like to make some weekend memories call Johnny Logan (EX 69762) at 342 Sunset Ave., Venice, Calif. ➧

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Divers' Bulletin Board

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Magazine-catalogue of the Buttonwood Farm Auction to be held Saturday, September 13, may now be reserved. It will be posted to you upon publication in August. This year's issue will include a number of interesting articles, several black and white plates showing rare sea shells and candid shots taken at past auctions, as well as a color plate, list of shell book suggestions, advertisements of interest to collectors, and, of course, the list of shells to be auctioned. Absentee bids will again be accepted. Reserve catalogue with enclosed $1.00 through: Miss Ann Rowland, Sec.-Treas., "Fairview Corners", Meadowbrook, Penna.

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EXPERIENCED COMMERCIAL DIVER available for work anywhere in the USA or abroad. Have Scuba gear, will travel. Offering services in underwater blasting, construction, cutting, demolition, diving, photography (motion picture & still), recovery, research, salvage, surveys, welding, etc. Latest equipment and methods. Captain C. F. Papenfus, Newport, Mich.

WE NEED photographs of female skin divers in rubber suits for use in pamphlets to promote skin diving among the hundreds of prospective women skin divers in the Detroit-Flint area. No photos can be returned. Mail to Camco Promotions, Box 161, Flint, Mich.

TWO 14 FOOT paddle boards, fiber glassed, $25 each. 20020 Parthenia, Northridge, Calif. DI 0-7404

FOR SALE—1 Pirelli dry suit, large size, complete with hood. Dr. John A. Green, 111 Masonic Building, Ocala, Florida.

WANTED—Used Leica F-2 wide angle lens 35mm camera; Weston exposure meter; underwater housings. Bill Buchanan, c/o WERE, 1501 Euclid Avenue, Cleveland, Ohio.

FOR SALE: Scott Hydro-Pak. Double tank 100 cu. ft., excellent condition. Best offer over $185. Richard J. Barter, 3094 Eggert Rd., Tonawanda, N.Y. WI-8912

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SHELL COLLECTORS—We buy-sell world wide sea shells. Send list. We pay highest prices. Edward Dunav, 229 S. 9th Street, Philadelphia 7, Penna.

Compton, California . . .

SEA ANGELS

By John C. Mills

Four of the younger members of our club spent their Easter vacation down in the Mexican waters. They encountered murky waters most of the time but were able to get one good day's diving in and John Milton was able to land a 22-lb. Gulf grouper, the largest fish taken.

Sunday, April 13, 1958 we had our inter-club competition meet with the Cormorants and Sea Cubs. The Cormorants came in on top again with Opal eye being the main species taken.

We have just voted into our club four very promising new members, Henry Gardner, Kenneth Hawley, Chris Lyles and John Milton. We are expecting to have a bigger and better club in the future, and these divers are a start in that direction, anybody interested in a year around active club can contact either John C. Mills, 527 W. Magnolia St., Compton, Calif. or Frank Cruze, 8061 Canterberry Way, Buena Park, Calif. Newmark 58973 or Lawrence 26059.

Philadelphia, Penna. . . .

MARINE EXPLORATION SOCIETY

By Ed Emery

The oldest organized diving club in the Philadelphia area has relocated. We're now meeting every second Tuesday at the North Branch YMCA in Philadelphia. For details call Dick Morlock at the "Y" or write me: Ed Emery, 1533 Mohican St., Philadelphia 38, Pa., Phone WA 7-0837.

Lots of activities are in the works for this season, first of which is a quarry dive. We're looking forward to some fine spearfishing off Barnegat, N. J. More news will follow.

Fukuoka, Japan . . .

KAPPA DIVING ASSOCIATION

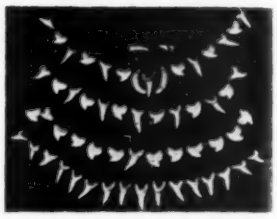
By Andrew D. May

The Kappa Diving Association has had several successful meetings so far this spring. As of now, there have been no club dives but hope to have one soon. Several members have been diving through the winter months but hunting has been poor. We have about sixty members at the present and we are campaigning for more members that will be active. Our club president, Lt. John Jones, has been instated. The vice-president is Capt. J. E. Gibbson and the secretary and treasurer is Lt. N. K. Ryan. The club is composed of Army and Air Force personnel stationed at Brady Air Base and Itazuke Air Base. An education program is being set up for beginners on diving techniques, care of equipment; and water safety which is to be taught all members. We would like to hear from other clubs and also want to extend an invitation to any interested divers in this area. Sp. 3 Andrew D. May, RA 19528770, 14th USASA Fld Stat., APO 929 Box 444, San Francisco, California.

GROUP EXPERIENCED AUSTRALIAN SKIN DIVERS shortly commence 16mm movie and 35mm still photography dealing with "Great Barrier Reef" and "Tourist Islands." Anyone interested in obtaining films or articles, forward details: "Lurie," 33 Ford St., Albion Heights, Brisbane, Australia.

FOR SALE—DY "Aqua-Lung" regulator, 71.2 tank, weight belt, depth gage, outfit used once, cost $115, asking $75. 4 strand arbalete $15; 65-shot CO_2 gun made of stainless and brass with stainless spear $20. Ken Fleisher, 46 Samana Dr., Miami, Fla.

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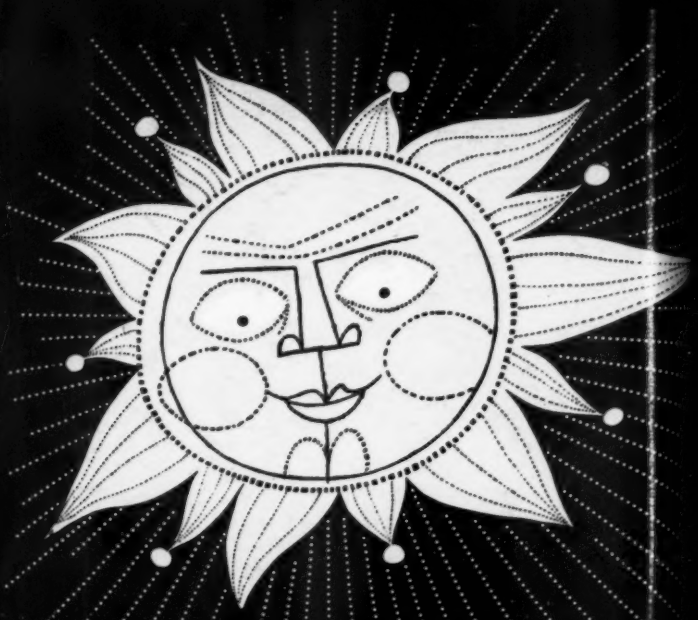


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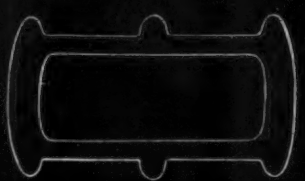
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